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/************************************************************************
* NCSA HTTPd Server
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* National Center for Supercomputing Applications
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************************************************************************/
/* md5.c: NCSA HTTPd code which uses the md5.c RSA Code */

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
  Mike Belshe (mbelshe@netscape.com)
  Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
<head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type"/>
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" />
<link rel="stylesheet" type="text/css" href="./style/css/prettify.css" />
<script src="./style/scripts/prettify.min.js" type="text/javascript"></script>
<link href="./images/favicon.ico" rel="shortcut icon" />
<body id="manual-page" class="no-sidebar">
<div id="page-header">
<p class="apache">Apache HTTP Server Version 2.4</p>
<img alt="" src="./images/feather.gif" /></div>
<div class="up"><a href="/>

<div id="path">
</div>

<div id="preamble">
<h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available Languages: </span><a href="en/license.html" title="English">en</a></p>
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****************************************************************************
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* Software Development Group
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* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
* 
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   Written by Adam Twiss (adam@zeus.co.uk).  March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

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1.7 Arp 1.3.2

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*
* Description: ROMMON ARP processing module. Inherited from PIX Monitor-Mode
* Code base.
*
* This code was originally taken from the NetBSD 1.3.2 distribution.
* It has been rather extensively modified, including removing RARP
* and fixing a lot of bugs.
*
*------------------------------------------------------------------
*/
$Id: //depot/acmilan/main/Xpix/boot/rommon/nb_arp.c#2 $
$Source: $
$*/

1.8 attr/libattr 2.4.47

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1.12 base-files 3.0.14

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.
Author: Julio Merino <jmmv@users.sourceforge.net>

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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1.21 boost 1.58.0 :0.0

1.21.1 Available under license :

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

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

(integral_constant<T,v> is not integral_constant<T>)

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

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

---

```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):
    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)
```

---

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Open Source Used In Firepower 6.5
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'^\W*(\(c\))?\s*?copyright\s*(\(c\))?\s+\d{4}(\s+-\s+\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)

<?xml version="1.0" encoding="utf-8"?>

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<!--
<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="../../../index.htm">
<imagedata align="left"
    format="GIF"
    fileref="../../../boost.png"
    alt="C++ Boost" />
</ulink>-->
<!--hr /-->
<para>
The following is the overall license for the boost date_time library. This notice is found in all source files related to the library.
</para>
<para>
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</para>
<!--hr /-->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>&#169; 2000-2002
</section>

===========================================================================
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Maybe this should pass?

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 * 
 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f) {} 
private:
    split_path& operator=(const split_path&);
};
std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << ">
    " << p.file.string() << "</a>";
    return os;
}

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

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
       "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">\n" <<
       "<html>\n" <<
       "<head>\n" <<
       "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<
       "</title>\n"};
Boost Licence Dependency Information

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

os << 
"<h1>Contents</h1>

if(!m_bsl_summary_mode)
  os << "<a href="#summary">Licence Summary</a>
  os << "<a href="#details">Licence Details</a>

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

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)
{
  os << 
  "Moving to the Boost Software License...
  " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
  " <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
  " <a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
  " <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
  "<a href="#copyright">Copyright Holder Information</a>

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

"</pre>

// // input Information:
// // os << "<a name="input"></a><h2>Input Information</h2>
// if(m_scan_mode)
os << "The following files were scanned for boost dependencies:<br>
else
os << "The following Boost modules were checked:<br>";
std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>"
;
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]*define\[[:blank:]]*BOOST_VERSION\[[:blank:]\]*/([\d]+)\);
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 
<< " </p>
;
}
//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
os << "<a name="summary"></a><h2>Licence Summary</h2>
;
while(i != j)
{
    // title:
    os << 
        "<H3>" << licenses.first[i->first].license_name << "</H3>" 
;
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    // Copyright holders:
    os << "<p>" << licenses.first[i->first].license_name << "<BR>
    authors and " << licenses.first[i->first].license_name << "<BR>
    " << licenses.first[i->first].license_text << "<BR>
    " << licenses.first[i->first].license_name << "(see details)";
    os << "</p>";
    ++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>
while(i != j)
{
  // title:
os << 
"<H3><A name="" << make_link_target(licenses.first[i->first].license_name) 
"">" << licenses.first[i->first].license_name << "</H3>\n";
  // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!(m_bsl_summary_mode || (license_index >= 3))
  
  // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:
<BLOCKQUOTE><P>
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
  os << *x << "<BR>\n"
  ++x;
}
os << "</P></BLOCKQUOTE>\n";
  // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:
<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) << "<hr>\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";
Open Source Used In Firepower 6.5

// Output list of files not found to be under license control:
//
// os << "<h2><a name="files"></a>Files With No Recognisable License</h2><p>
"<p>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</p><blockquote><p>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br">
    ++i2;
}
os << "</p></blockquote>
//
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><p>
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</p><blockquote><p>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br">
    ++i2;
}
os << "</p></blockquote>
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2><p>
    "<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:</p><p>
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
        
```
conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();

int file_num = 1;
while (i != ie)
{
    os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
        << "</tt>\n <tr><td><pre>" << i->second.first << "</pre></td><td><pre>" << i->second.second << "</pre></td></tr>";
    ++i;
    ++file_num;
}
}

// Output list of files that could be moved over to the Boost Software License

//
// The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:

<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:
<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) << "\n";
    ++i2;
}

os << "</P></BLOCKQUOTE>";

// Output list of files that can not be moved over to the Boost Software License

//
// The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:

<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:
<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) << "\n";
    ++i2;
}

os << "</P></BLOCKQUOTE>";

// Output list of authors that we need permission for to move to the BSL

//

"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code></p>

```cpp
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""\n"; std::map<std::string, std::set<fs::path, path_less>>::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>
    ++ad;
}

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

// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();

```
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
    while(true)
    {
        os << " -> ";
        if(fs::exists(m_boost_path / dep->second))
            os << split_path(m_boost_path, dep->second);
        else if(fs::exists(dep->second))
            os << split_path(fs::path(), dep->second);
        else
            os << dep->second.string();
        if(seen_deps.find(dep->second) != seen_deps.end())
        {
            os << "<I>(Circular dependency!)</I>");
            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>";
if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".";
}
std::runtime_error e(msg);
boost::throw_exception(e);

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(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.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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////////////////////////////////////////////////////////////////////////
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// http://www.boost.org/LICENSE_1_0.txt)
//
//
#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 <cstddef>

namespace boost {
namespace container {
namespace container_detail {

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

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

template< unsigned V_ >
struct unsigned_ : integral_constant<unsigned, V_>
{
    static const unsigned value = V_;
    operator unsigned() const { return unsigned_::value; }
};

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

}}
}}

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

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

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

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

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

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

#if defined(_MSC_VER) && (_MSC_VER >= 1400)

template <class T, class U>
struct is_convertible
{
    static const bool value = __is_convertible_to(T, U);
};
#else

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  //use any_conversion as first parameter since in MSVC
    //overaligned types can't go through ellipsis
    static false_t dispatch(...);
    static true_t dispatch(U);
    static T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
#endif
template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

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

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

template <class Pair>
struct select1st
{
    typedef Pair                        argument_type;
    typedef typename Pair::first_type   result_type;

    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

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

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T argument_type;
    typedef T result_type;

    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

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

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

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

template <std::size_t OrigSize, std::size_t RoundTo>
struct ct_rounded_size
{
    static const std::size_t value = ((OrigSize-1)/RoundTo+1)*RoundTo;
};

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

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

#include <boost/container/detail/config_end.hpp>
#endif  //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#define BOOST_CONFIG_HPP

#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

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

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

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

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

typedef true_ true_type;
typedef false_ false_type;

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

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

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

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

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

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

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

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

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

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

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

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

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

template<>
struct ls_zeros<1>
{
static const std::size_t value = 0;
};
} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {
#endif //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
/////////////////////////////////////////////////////////////////////////////
//
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//
http://www.boost.org/LICENSE_1_0.txt)
//
//
/////////////////////////////////////////////////////////////////////////////
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP
#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif
#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {
template <typename T, typename U>
struct is_same
{
static const bool value = false;
};
template <typename T>
struct is_same<T, T>
{

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static const bool value = true;
;

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

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

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

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

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

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

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

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

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

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

template<class T>
struct remove_pointer<T*> {
    typedef T type;
};

template<class T>
struct add_pointer {
    typedef T *type;
};
typedef char one;
struct two { one _[2]; };

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

template< class Integer, Integer Value >
struct integer
{
    static const Integer value = Value;
};
typedef bool_<true>       true_;
typedef bool_<false>      false_;
typedef true_  true_type;
typedef false_ false_type;
typedef char yes_type;
struct no_type {
    char padding[8];
};

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

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

#if defined(_MSC_VER) && (_MSC_VER >= 1400)

template <class T, class U>
struct is_convertible
{
    static const bool value = __is_convertible_to(T, U);
};
#else

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; //use any_conversion as first parameter since in MSVC
    //overaligned types can't go through ellipsis
    static false_t dispatch(...);
    static true_t  dispatch(U);
    static typename remove_reference<T>::type &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
#endif

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

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

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

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

template<
    typename C
    , typename T1
    , typename T2
>
struct eval_if
    : if_<C,T1,T2>::type
{
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

template<class T, bool Add>
struct add_const_if_c
{
    typedef typename if_c<
        < Add
        , typename add_const<T>::type
        , T
    >::type
    , T
}
//boost::alignment_of yields to 10K lines of preprocessed code, so we //need an alternative
template <typename T> struct alignment_of;

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

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

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

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

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

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};
template<br>struct ls_zeros<br>{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

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

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

template <typename T> struct unvoid_ref { typedef T &type; };
template <> struct unvoid_ref<void> { struct type_impl { }; typedef type_impl & type; };

template <> struct unvoid_ref<const void> { struct type_impl { }; typedef type_impl & type; };

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
template <typename T, typename DefaultType>                    \
struct boost_intrusive_default_type_ ## TNAME                  \
{
    template <typename X>                                       \
    static char test(int, typename X::TNAME*);                  \
    \
    template <typename X>                                       \
    static int test(...);                                       \
    \
    struct DefaultWrap { typedef DefaultType TNAME; };          \
    \
    static const bool value = (1 == sizeof(test<T>(0, 0)));     \
    \
    typedef typename                                            \
    ::boost::intrusive::detail::if_c                         \
    <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_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPL(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 <class T>   
 struct TRAITS_PREFIX##_bool   
 {   
   template<bool Add>   
   struct two_or_three {one _[2 + Add];};
   template <class U> static one test(...);
   template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
   static const std::size_t value = sizeof(test<T>(0));
   
   
   template <class T>   
   struct TRAITS_PREFIX##_bool_is_true   
   {   
     static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(one)*2;
   };

}
```cpp
//

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

template <typename T>
inline T* addressof(T& obj)
```
{  
  return static_cast<T*>(
    static_cast<void*>(
      const_cast<char&>(
        reinterpret_cast<const char&>(obj))
    )
  );
}

} //namespace intrusive
} //namespace boost

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

The following people hereby grant permission to replace all existing
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1.22 Boost C++ library 1.58

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzzip2/libbzzip2 version 1.0.4 of 20 December 2006
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.36 clock_util.c 1992

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*item*

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@end enumerate

@page

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

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@c Local Variables:
1.40 cracklib 2.9.5 :0.0
1.40.1 Available under license :

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Version 2.1, February 1999

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

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

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.
[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

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

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

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

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

the original license (before moving to sourceforge -- aka, 2.7) was not
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 th=
eir=20
applications are also GPL-2 whichimo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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

-- Nathan
=20

Theodore "Mike" Frysinger

--- Original Message ---
From: cracklib-devel-bounces@li... On Behalf Of
[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

> -----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
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> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
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> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
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unlike the old license, GPL-2 prevents people from using cracklib
unless their
applications are also GPL-2 which is just wrong. it isn't the
place of a
library to dictate to application writes what license they should
be using.
thus LGPL-2.1 enters to fill this void.
-mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

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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 ?
> > make the change now ?
> >
yes. go for it. thanks++

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

-mike

----------

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

----------

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

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

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

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTPT id I91Gxtp020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTPT id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
    Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtpt (Exim 4.50)
    id 11OcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
    Mime-Version: 1.0 (Apple Message framework v752.2)
    In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

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

Happy now? :-)

-a

1.41 CRC32 1.222

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1.42 cronie 1.5.0

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

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1.44 curl 7.44.0

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

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 3a0982da308228d796df35f98d787c5c9f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

1.52 Diffutils 3.3

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1.54 dnsmasq 2.75

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1.56 dosfstools 3.0.28

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### 1.57 DPDK 17.08 :17.08

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

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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

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1.76 fnmatch.c 1.11

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1.80 freeradius-client 1.1.7

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The debian package files have been derived from the original radiusclient1 debian package.

It was downloaded from ftp.cityline.net/pub/radiusclient/

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src/gzip/zconf.h
src/gzip/zlib.h
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src/gzip/zutil.h
#
src/tools/ftrandom/ftrandom.c
#
# EOF

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1.87 gawk 4.1.3

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    Version 2, June 1991

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

Preamble
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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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

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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.

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

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

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

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

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally
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END OF TERMS AND CONDITIONS

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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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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!

1.88 gcc-runtime 5.2.0
1.88.1 Available under license:

" Automatically generated by Pod::Man 2.28 (Pod::Simple 3.29)
" Standard preamble:
" de Sp " Vertical space (when we can't use .PP)
"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<>.

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\"Escape single quotes in literal strings from groff’s Unicode transform.
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\"If the F register is turned on, 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'.
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.nr \n F 0
.if \n(g .if \n F .nr \n F 1
.if \n F:0; \n(g==0)) |
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" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
" Fear. Run. Save yourself. No user-serviceable parts.
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For nroff, turn off justification. Always turn off hyphenation; it makes
way too many mistakes in technical documents.

V" For troff and (daisy-wheel) nroff accents

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

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

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  */

/*
 * Modified by the GLib Team and others 1997-2000. See the AUTHORS
 * file for a list of people on the GLib Team. See the ChangeLog
 * files for a list of changes. These files are distributed with
 */

#ifndef __GMODULE_H__
#define __GMODULE_H__

#include <glib.h>

G_BEGIN_DECLS
/* exporting and importing functions, this is special cased
 * to feature Windows dll stubs.
 */
#define G_MODULE_IMPORT extern
#ifdef G_PLATFORM_WIN32
#define G_MODULE_EXPORT __declspec(dllexport)
#else /* !G_PLATFORM_WIN32 */
#define G_MODULE_EXPORT
#endif /* !G_PLATFORM_WIN32 */

typedef enum
{
    G_MODULE_BIND_LAZY = 1 << 0,
    G_MODULE_BIND_LOCAL = 1 << 1,
    G_MODULE_BIND_MASK = 0x03
} GModuleFlags;

typedef struct _GModule GModule;

typedef const gchar* (*GModuleCheckInit) (GModule *module);
typedef void (*GModuleUnload) (GModule *module);

/* return TRUE if dynamic module loading is supported */
GLenum_available_in_all
gboolean g_module_supported (void) G_GNUC_CONST;

/* open a module 'file_name' and return handle, which is NULL on error */
GLenum_available_in_all
GModule* g_module_open (const gchar *file_name,
                       GModuleFlags flags);

/* close a previously opened module, returns TRUE on success */
GLenum_available_in_all
gboolean g_module_close (GModule *module);

/* make a module resident so g_module_close on it will be ignored */
GLenum_available_in_all
void g_module_make_resident (GModule *module);

/* query the last module error as a string */
GLenum_available_in_all
const gchar * g_module_error (void);

/* retrieve a symbol pointer from 'module', returns TRUE on success */
GLenum_available_in_all
gboolean g_module_symbol (GModule *module,
                          const gchar *symbol_name,
gpointer *symbol);

/* retrieve the file name from an existing module */
GLenum_available_in_all
const gchar * g_module_name (GModule *module);

/* Build the actual file name containing a module. 'directory' is the
 * directory where the module file is supposed to be, or NULL or empty
 * in which case it should either be in the current directory or, on
 * some operating systems, in some standard place, for instance on the
 * PATH. Hence, to be absolutely sure to get the correct module,
 * always pass in a directory. The file name consists of the directory,
 * if supplied, and 'module_name' suitably decorated according to
 * the operating system's conventions (for instance lib*.so or *.dll).
 * No checks are made that the file exists, or is of correct type.
 */
GLenum_available_in_all
gchar* g_module_build_path (const gchar *directory,
                            const gchar *module_name);

#ifndef __GTK_DOC_IGNORE__
#ifdef G_OS_WIN32
#define g_module_open g_module_open_utf8
#define g_module_name g_module_name_utf8

GLIB_AVAILABLE_IN_ALL
GModule * g_module_open_utf8 (const gchar *file_name,
                               GModuleFlags flags);
GLIB_AVAILABLE_IN_ALL
const gchar *g_module_name_utf8 (GModule module);
#endif
#endif

G_END_DECLS

#ifndef __GMODULE_H__
#endif /* __GMODULE_H__ */

/****************************************************************************
*       Perl-Compatible Regular Expressions      *
****************************************************************************/

/* This is the public header file for the PCRE library, to be #included by
applications that call the PCRE functions.

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--------------------------------------------------------------------------
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INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
#ifndef _PCRE_H
#define _PCRE_H

/* The current PCRE version information. */

#define PCRE_MAJOR          8
#define PCRE_MINOR          31
#define PCRE_PRERELEASE
#define PCRE_DATE           2012-07-06

/* When an application links to a PCRE DLL in Windows, the symbols that are imported have to be identified as such. When building PCRE, the appropriate export setting is defined in pcre_internal.h, which includes this file. So we don't change existing definitions of PCRE_EXPDECL and PCREC_PEXPDECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
  ifndef PCRE_EXPDECL
    define PCRE_EXPDECL  extern __declspec(dllimport)
  endif
  ifdef __cplusplus
    ifndef PCREC_PEXPDECL
      define PCREC_PEXPDECL  extern __declspec(dllimport)
    endif
    ifndef PCREC_PEXPDEFN
      define PCREC_PEXPDEFN __declspec(dllimport)
    endif
  endif
#endif

/* By default, we use the standard "extern" declarations. */

#elif defined(PCRE_EXPDECL)
  ifdef __cplusplus
    define PCREC_PEXPDECL  extern
  endif
  endif
#endif

/* The current PCRE version information. */
/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */

#include <stdlib.h>

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

/* Options. Some are compile-time only, some are run-time only, and some are
both, so we keep them all distinct. However, almost all the bits in the options
word are now used. In the long run, we may have to re-use some of the
compile-time only bits for runtime options, or vice versa. In the comments
below, "compile", "exec", and "DFA exec" mean that the option is permitted to
be set for those functions; "used in" means that an option may be set only for
compile, but is subsequently referenced in exec and/or DFA exec. Any of the
compile-time options may be inspected during studying (and therefore JIT
compiling). */

#define PCRE_CASELESS           0x00000001  /* Compile */
#define PCRE_MULTILINE          0x00000002  /* Compile */
#define PCRE_DOTALL             0x00000004  /* Compile */
#define PCRE_EXTENDED           0x00000008  /* Compile */
#define PCRE_ANCHORED           0x00000010  /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY     0x00000020  /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA              0x00000040  /* Compile */
#define PCRE_NOTBOL             0x00000080  /* Exec, DFA exec */
#define PCRE_NOTEOL             0x00000100  /* Exec, DFA exec */
#define PCRE_UNGREEDY           0x00000200  /* Compile */
#define PCRE_NOTEMPTY           0x00000400  /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8               0x00000800  /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16              0x00000800  /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE    0x00001000  /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK      0x00002000  /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK     0x00002000  /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT       0x00004000  /* Compile */
#define PCRE_PARTIAL_SOFT       0x00008000  /* Exec, DFA exec */
#define PCRE_PARTIAL            0x00008000  /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST       0x00010000  /* DFA exec */
#define PCRE_DFA_RESTART        0x00020000  /* DFA exec */
#define PCRE_FIRSTLINE 0x00040000 /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES 0x00080000 /* Compile */
#define PCRE_NEWLINE_CR 0x00100000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF 0x00200000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY 0x00400000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF 0x00500000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF 0x00800000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE 0x01000000 /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000 /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000 /* Synonym */
#define PCRE_PARTIAL_HARD 0x08000000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x10000000 /* Exec, DFA exec */
#define PCRE_UCP 0x20000000 /* Compile, used in exec, DFA exec */

/* Exec-time and get/set-time error codes */

#define PCRE_ERROR_NOMATCH -1 /* Never used by PCRE itself */
#define PCRE_ERROR_NULL -2
#define PCRE_ERROR_BADOPTION -3
#define PCRE_ERROR_BADMAGIC -4
#define PCRE_ERROR_UNKNOWN_OPCODE -5 /* For backward compatibility */
#define PCRE_ERROR_UNKNOWN_NODE -5
#define PCRE_ERROR_NOMEMORY -6
#define PCRE_ERROR_NOSUBSTRING -7
#define PCRE_ERROR_MATCHLIMIT -8
#define PCRE_ERROR_CALLOUT -9 /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8 -10 /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16 -10 /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET -11 /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET -11 /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL -12
#define PCRE_ERROR_BADPARTIAL -13
#define PCRE_ERROR_INTERNAL -14
#define PCRE_ERROR_BADCOUNT -15
#define PCRE_ERROR_DFA_UITEM -16
#define PCRE_ERROR_DFA_UCOND -17
#define PCRE_ERROR_DFA_UMLIMIT -18
#define PCRE_ERROR_DFA_WSSIZE -19
#define PCRE_ERROR_DFA_RECURSE -20
#define PCRE_ERROR_RECURSIONLIMIT -21
#define PCRE_ERROR_NULLWSLIMIT -22 /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE -23
#define PCRE_ERROR_BADOFFSET -24
#define PCRE_ERROR_SHORTUTF8 -25 /* Same for 8/16 */
#define PCRE_ERROR_SHORTUTF16 -25 /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP -26
# define PCRE_ERROR_JIT_STACKLIMIT (-27)
# define PCRE_ERROR_BADMODE       (-28)
# define PCRE_ERROR_BADENDIANNESS (-29)
# define PCRE_ERROR_DFA_BADRESTART (-30)

/* Specific error codes for UTF-8 validity checks */

# define PCRE_UTF8_ERR0 0
# define PCRE_UTF8_ERR1 1
# define PCRE_UTF8_ERR2 2
# define PCRE_UTF8_ERR3 3
# define PCRE_UTF8_ERR4 4
# define PCRE_UTF8_ERR5 5
# define PCRE_UTF8_ERR6 6
# define PCRE_UTF8_ERR7 7
# define PCRE_UTF8_ERR8 8
# define PCRE_UTF8_ERR9 9
# define PCRE_UTF8_ERR10 10
# define PCRE_UTF8_ERR11 11
# define PCRE_UTF8_ERR12 12
# define PCRE_UTF8_ERR13 13
# define PCRE_UTF8_ERR14 14
# define PCRE_UTF8_ERR15 15
# define PCRE_UTF8_ERR16 16
# define PCRE_UTF8_ERR17 17
# define PCRE_UTF8_ERR18 18
# define PCRE_UTF8_ERR19 19
# define PCRE_UTF8_ERR20 20
# define PCRE_UTF8_ERR21 21

/* Specific error codes for UTF-16 validity checks */

# define PCRE_UTF16_ERR0 0
# define PCRE_UTF16_ERR1 1
# define PCRE_UTF16_ERR2 2
# define PCRE_UTF16_ERR3 3
# define PCRE_UTF16_ERR4 4

/* Request types for pcre_fullinfo() */

# define PCRE_INFO_OPTIONS       0
# define PCRE_INFO_SIZE          1
# define PCRE_INFO_CAPTURECOUNT  2
# define PCRE_INFO_BACKREFMAX    3
# define PCRE_INFO_FIRSTBYTE     4
# define PCRE_INFO_FIRSTCHAR     4  /* For backwards compatibility */
# define PCRE_INFO_FIRSTTABLE    5
# define PCRE_INFO_LASTLITERAL   6
```c
#define PCRE_INFO_NAMEENTRIESIZE 7
#define PCRE_INFO_NAMECOUNT 8
#define PCRE_INFO_NAMETABLE 9
#define PCRE_INFO_STUDYSIZE 10
#define PCRE_INFO_DEFAULT_TABLES 11
#define PCRE_INFO_OKPARTIAL 12
#define PCRE_INFO_JCHANGED 13
#define PCRE_INFO_HASCRORLF 14
#define PCRE_INFO_MINLENGTH 15
#define PCRE_INFO_JIT 16
#define PCRE_INFO_JITSIZE 17
#define PCRE_INFO_MAXLOOKBEHIND 18

/* Request types for pcre_config(). Do not re-arrange, in order to remain compatible. */
#define PCRE_CONFIG_UTF8 0
#define PCRE_CONFIG_NEWLINE 1
#define PCRE_CONFIG_LINK_SIZE 2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT 4
#define PCRE_CONFIG_STACKRECURSE 5
#define PCRE_CONFIG_UNICODE_PROPERTIES 6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION 7
#define PCRE_CONFIG_BSR 8
#define PCRE_CONFIG_JIT 9
#define PCRE_CONFIG_UTF16 10
#define PCRE_CONFIG_JITTARGET 11

/* Request types for pcre_study(). Do not re-arrange, in order to remain compatible. */
#define PCRE_STUDY_JIT_COMPILE 0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE 0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE 0x0004

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine these bits, just add new ones on the end, in order to remain compatible. */
#define PCRE_EXTRA_STUDY_DATA 0x0001
#define PCRE_EXTRA_MATCH_LIMIT 0x0002
#define PCRE_EXTRA_CALLOUT_DATA 0x0004
#define PCRE_EXTRA_TABLES 0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION 0x0010
#define PCRE_EXTRA_MARK 0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT 0x0040

/* Types */
```
struct real_pcre; /* declaration; the definition is private */
typedef struct real_pcre pcre;

struct real_pcre16; /* declaration; the definition is private */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */
#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in
such as way as to be extensible. Always add new fields at the end, in order to
remain compatible. */
typedef struct pcre_extra {
    unsigned long int flags; /* Bits for which fields are set */
    void *study_data; /* Opaque data from pcre_study() */
    unsigned long int match_limit; /* Maximum number of calls to match() */
    void *callout_data; /* Data passed back in callouts */
    const unsigned char *tables; /* Pointer to character tables */
    unsigned long int match_limit_recursion; /* Max recursive calls to match() */
    unsigned char **mark; /* For passing back a mark pointer */
    void *executable_jit; /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */
typedef struct pcre16_extra {
    unsigned long int flags;        /* Bits for which fields are set */
    void *study_data;               /* Opaque data from pcre_study() */
    unsigned long int match_limit;  /* Maximum number of calls to match() */
    void *callout_data;             /* Data passed back in callouts */
    const unsigned char *tables;    /* Pointer to character tables */
    unsigned long int match_limit_recursion; /* Max recursive calls to match() */
    PCRE_UCHAR16 **mark;            /* For passing back a mark pointer */
    void *executable_jit;           /* Contains a pointer to a compiled jit code */
} pcre16_extra;

/* The structure for passing out data via the pcre_callout_function. We use a
structure so that new fields can be added on the end in future versions,
without changing the API of the function, thereby allowing old clients to work
without modification. */

typedef struct pcre_callout_block {
    int          version;           /* Identifies version of block */
} pcre16_callout_block;
/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre_callout_block {
    int          version;           /* Identifies version of block */
} pcre16_callout_block;
int capture_top;    /* Max current capture */
int capture_last;   /* Most recently closed capture */
void *callout_data; /* Data passed in with the call */
/* -------------------Added for Version 1 -------------------------- */
int pattern_position; /* Offset to next item in the pattern */
int next_item_length; /* Length of next item in the pattern */
/* -------------------Added for Version 2 -------------------------- */
const PCRE_UCHAR16 *mark; /* Pointer to current mark or NULL */
/* ------------------------------------------------------------------ */
}

} pcre16_callout_block;

/* Indirection for store get and free functions. These can be set to
  alternative malloc/free functions if required. Special ones are used in the
  non-recursive case for "frames". There is also an optional callout function
  that is triggered by the (?) regex item. For Virtual Pascal, these definitions
  have to take another form. */

#ifndef VPCOMPAT
PCRE_EXPDECL void *(pcre_malloc)(size_t);
PCRE_EXPDECL void *(pcre_free)(void *);
PCRE_EXPDECL void *(pcre_stack_malloc)(size_t);
PCRE_EXPDECL void *(pcre_stack_free)(void *);
PCRE_EXPDECL int *(pcre_callout)(pcre_callout_block *);
PCRE_EXPDECL void *(pcre16_malloc)(size_t);
PCRE_EXPDECL void *(pcre16_free)(void *);
PCRE_EXPDECL void *(pcre16_stack_malloc)(size_t);
PCRE_EXPDECL void *(pcre16_stack_free)(void *);
PCRE_EXPDECL int *(pcre16_callout)(pcre16_callout_block *);
#else /* VPCOMPAT */
PCRE_EXPDECL void *pcre_malloc(size_t);
PCRE_EXPDECL void pcre_free(void *);
PCRE_EXPDECL void *pcre_stack_malloc(size_t);
PCRE_EXPDECL void pcre_stack_free(void *);
PCRE_EXPDECL int pcre_callout(pcre_callout_block *);
PCRE_EXPDECL void *pcre16_malloc(size_t);
PCRE_EXPDECL void pcre16_free(void *);
PCRE_EXPDECL void *pcre16_stack_malloc(size_t);
PCRE_EXPDECL void pcre16_stack_free(void *);
PCRE_EXPDECL int pcre16_callout(pcre16_callout_block *);
#endif /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */
typedef pcre_jit_stack *(pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(pcre16_jit_callback)(void *);
/* Exported PCRE functions */

PCRE_EXPDECL pcre *pcre_compile(const char *, int, const char **, int *,
   const unsigned char *);
PCRE_EXPDECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *
   , const unsigned char *);
PCRE_EXPDECL pcre *pcre_compile2(const char *, int, int *, const char **,
   int *, const unsigned char *);
PCRE_EXPDECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
   int *, const unsigned char *);
PCRE_EXPDECL int  pcre_config(int, void *);
PCRE_EXPDECL int  pcre16_config(int, void *);
PCRE_EXPDECL int  pcre_copy_named_substring(const pcre *, const char *
   , int *, int, const char *, char *, int);
PCRE_EXPDECL int  pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
   int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXPDECL int  pcre_copy_substring(const char *, int *, int, char *
   , int);
PCRE_EXPDECL int  pcre16_copy_substring(PCRE_SPTR16, int *, int, PCRE
   _UCHAR16 *, int);
PCRE_EXPDECL int  pcre_dfa_exec(const pcre *, const pcre_extra *
   , const char *, int, int, int *, int *, int *, int); 
PCRE_EXPDECL int  pcre16_dfa_exec(const pcre16 *, const pcre16_extra *
   , PCRE_SPTR16, int, int, int *, int *, int *, int *
   , int); 
PCRE_EXPDECL int  pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
   int, int, int *, int); 
PCRE_EXPDECL int  pcre16_exec(const pcre16 *, const pcre16_extra *
   , PCRE_SPTR16, int, int, int *, int); 
PCRE_EXPDECL void pcre_free_substring(const char *);
PCRE_EXPDECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXPDECL void pcre_free_substring_list(const char **);
PCRE_EXPDECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXPDECL int  pcre_fullinfo(const pcre *, const pcre_extra *, int,
   void *);
PCRE_EXPDECL int  pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
   void *);
PCRE_EXPDECL int  pcre_get_named_substring(const pcre *, const char *
   , int *, int, const char *, const char **);
PCRE_EXPDECL int  pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
   int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXPDECL int  pcre_get_stringnumber(const pcre *, const char *
   );
PCRE_EXPDECL int  pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXPDECL int  pcre_get_stringtable_entries(const pcre *, const char *
   , char **, char **);
PCRE_EXPDECL int  pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
   PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXPDECL int  pcre_get_substring(const char *, int *, int, int,
   const char **);
PCRE_EXP_DECLS int pcre16_get_substring(PCRE_SPTR16, int *, int, int, PCRE_SPTR16 *);
PCRE_EXP_DECLS int pcre_get_substring_list(const char *, int *, int, const char **);
PCRE_EXP_DECLS int pcre16_get_substring_list(PCRE_SPTR16, int *, int, PCRE_SPTR16 **);
PCRE_EXP_DECLS const unsigned char *pcre_maketables(void);
PCRE_EXP_DECLS const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECLS int pcre_refcount(pcre *, int);
PCRE_EXP_DECLS int pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECLS pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECLS pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECLS void pcre_free_study(pcre_extra *);
PCRE_EXP_DECLS void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECLS const char *pcre_version(void);
PCRE_EXP_DECLS const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXP_DECLS int pcre_pattern_to_host_byte_order(pcre *, pcre_extra *, const unsigned char *);
PCRE_EXP_DECLS int pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *, const unsigned char *);
PCRE_EXP_DECLS int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *, PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */
PCRE_EXP_DECLS pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECLS pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECLS void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECLS void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECLS void pcre_assign_jit_stack(pcre_extra *, pcre_jit_callback, void *);
PCRE_EXP_DECLS void pcre16_assign_jit_stack(pcre16_extra *, pcre16_jit_callback, void *);

#endif __cplusplus
} /* extern "C" */
#endif /* End of pcre.h */

PCRE LICENCE

Please see the file LICENCE in the PCRE distribution for licensing details.

End

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1.97 glibc 2.22

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export UPDATE_COPYRIGHT_FORCE=1
export UPDATE_COPYRIGHT_USE_INTERVALS=2
export UPDATE_COPYRIGHT_MAX_LINE_LENGTH=79
update_script=$1
if ! [ -f "$update_script" ]; then
echo "error: first argument must point to gnulib update-copyright script" >&2
exit 1
fi
cd "$(dirname "$0")/.."
files=$(find . -type f | sed 's|^\./||' | grep -v '^\.git/')
for f in $files; do
case $f in
COPYING | COPYING.LIB | manual/fdl-1.3.texi | manual/lgpl-2.1.texi)
# Licenses imported verbatim from FSF sources.
;;
manual/texinfo.tex | scripts/config.guess | scripts/config.sub \
| scripts/install-sh | scripts/mkinstalldirs | scripts/move-if-change)
# Other files imported verbatim from other GNU repositories.
;;
po/*.po)
# Files imported verbatim from the Translation Project.
;;
INSTALL | intl/plural.c | locale/C-translit.h \
| locale/programs/charmap-kw.h | locale/programs/locfile-kw.h \
| po/libc.pot | sysdeps/gnu/errlist.c)
# Generated files.
;;
configure | */configure | preconfigure | */preconfigure)
# Possibly generated files.
if ! [ -f "$f.ac" ]; then
"$update_script" "$f"
fi
;;
grp/initgroups.c | misc/bits/stab.def | posix/regex.h \
| sysdeps/wordsize-32/divdi3.c)
# Pre-1991 gaps in copyright years, so cannot use a single range.
UPDATE_COPYRIGHT_USE_INTERVALS=1 "$update_script" "$f"
;;
*)
"$update_script" "$f"
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esac

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1195


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@end display

@subheading Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.
This license, the Lesser General Public License, applies to some specially designated software—typically libraries—of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

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

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

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

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

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

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

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

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

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

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

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

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
This License Agreement applies to any software library or other program
which contains a notice placed by the copyright holder or other
authorized party saying it may be distributed under the terms of this
Lesser General Public License (also called ``this License''). Each
licensee is addressed as ``you''.

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

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

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

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.
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:

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

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

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

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

@enumerate a
@item Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
@item Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
@end enumerate

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infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
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all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

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

@item
If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

@item
The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
“any later version”, you have the option of following the terms and
conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

@item
If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

@center @b{NO WARRANTY}

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@item
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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading 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.

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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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1.110 go-gin-gonic v1.1.4

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Cobra is both a library for creating powerful modern CLI applications as well as a program to generate applications and command files.

Many of the most widely used Go projects are built using Cobra including:

* [Kubernetes](http://kubernetes.io/)
* [Hugo](http://gohugo.io)
* [rkt](https://github.com/coreos/rkt)
* [etcd](https://github.com/coreos/etcd)
* [Moby (former Docker)](https://github.com/moby/moby)
* [Docker (distribution)](https://github.com/docker/distribution)
* [OpenShift](https://www.openshift.com/)
* [Delve](https://github.com/derekparker/delve)
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* [Bleve](http://www.blevesearch.com/)
* [ProjectAtomic (enterprise)](http://www.projectatomic.io/)
* [GiantSwarm's swarm](https://github.com/giantswarm/cli)
* [Nanobox](https://github.com/nanobox-io/nanobox)/[Nanopack](https://github.com/nanopack)
* [rclone](http://rclone.org/)

![Build Status](https://travis-ci.org/spf13/cobra.svg "Travis CI status")](https://travis-ci.org/spf13/cobra)

![cobra](https://cloud.githubusercontent.com/assets/173412/10911369/84832a8e-8212-11e5-9f82-cc96660a4794.gif)

# Overview

Cobra is a library providing a simple interface to create powerful modern CLI interfaces similar to git & go tools.

Cobra is also an application that will generate your application scaffolding to rapidly develop a Cobra-based application.

Cobra provides:
* Easy subcommand-based CLIs: `app server`, `app fetch`, etc.
* Fully POSIX-compliant flags (including short & long versions)
* Nested subcommands
* Global, local and cascading flags
* Easy generation of applications & commands with `cobra init appname` & `cobra add cmdname`
* Intelligent suggestions (`app sver`... did you mean `app server`?)
* Automatic help generation for commands and flags
* Automatic detailed help for `app help [command]`
* Automatic help flag recognition of `-h`, `--help`, etc.
* Automatically generated bash autocomplete for your application
* Automatically generated man pages for your application
* Command aliases so you can change things without breaking them
* The flexibility to define your own help, usage, etc.
* Optional tight integration with [viper](http://github.com/spf13/viper) for 12-factor apps

Cobra has an exceptionally clean interface and simple design without needless constructors or initialization methods.

Applications built with Cobra commands are designed to be as user-friendly as possible. Flags can be placed before or after the command (as long as a confusing space isn't provided). Both short and long flags can be used. A command need not even be fully typed. Help is automatically generated and available for the application or for a specific command using either the help command or the `--help` flag.

# Concepts

Cobra is built on a structure of commands, arguments & flags.

**Commands** represent actions, **Args** are things and **Flags** are modifiers for those actions.

The best applications will read like sentences when used. Users will know how to use the application because they will natively understand how to use it.

The pattern to follow is

`APPNAME VERB NOUN --ADJECTIVE.`

or

`APPNAME COMMAND ARG --FLAG`

A few good real world examples may better illustrate this point.

In the following example, 'server' is a command, and 'port' is a flag:

```
hugo server --port=1313
```

In this command we are telling Git to clone the url bare.

```
git clone URL --bare
```
## Commands

Command is the central point of the application. Each interaction that the application supports will be contained in a Command. A command can have children commands and optionally run an action.

In the example above, `server` is the command.

A Command has the following structure:

```go
```}

## Flags

A Flag is a way to modify the behavior of a command. Cobra supports fully POSIX-compliant flags as well as the Go [flag package](https://golang.org/pkg/flag/).

A Cobra command can define flags that persist through to children commands and flags that are only available to that command.

In the example above, `port` is the flag.

Flag functionality is provided by the [pflag library](https://github.com/spf13/pflag), a fork of the flag standard library which maintains the same interface while adding POSIX compliance.

## Usage

Cobra works by creating a set of commands and then organizing them into a tree. The tree defines the structure of the application.

Once each command is defined with its corresponding flags, then the tree is assigned to the commander which is finally executed.

### Installing

Using Cobra is easy. First, use `go get` to install the latest version of the library. This command will install the `cobra` generator executable along with the library and its dependencies:

```bash
go get -u github.com/spf13/cobra/cobra
```
Next, include Cobra in your application:

```go
```
go get github.com/spf13/cobra/cobra

This will create the cobra executable under your `$GOPATH/bin` directory.

### cobra init

The `cobra init [yourApp]` command will create your initial application code for you. It is a very powerful application that will populate your program with the right structure so you can immediately enjoy all the benefits of Cobra. It will also automatically apply the license you specify to your application.

Cobra init is pretty smart. You can provide it a full path, or simply a path similar to what is expected in the import.

```
cobra init github.com/spf13/newAppName
```

### cobra add

Once an application is initialized Cobra can create additional commands for you. Let's say you created an app and you wanted the following commands for it:

* app serve
* app config
  * app config create

In your project directory (where your main.go file is) you would run the following:

```
cobra add serve
cobra add config
cobra add create -p 'configCmd'
```

*Note: Use camelCase (not snake_case/snake-case) for command names. Otherwise, you will encounter errors. For example, `cobra add add-user` is incorrect, but `cobra add addUser` is valid.*

Once you have run these three commands you would have an app structure similar to the following:

```
&9662; app/
 &9662; cmd/
server.go
cfg.go
create.go
```
main.go
```
At this point you can run `go run main.go` and it would run your app. `go run main.go serve`, `go run main.go config`, `go run main.go config create` along with `go run main.go help serve`, etc. would all work.

Obviously you haven't added your own code to these yet. The commands are ready for you to give them their tasks. Have fun!

### Configuring the cobra generator

The Cobra generator will be easier to use if you provide a simple configuration file which will help you eliminate providing a bunch of repeated information in flags over and over.

An example ~/.cobra.yaml file:

```
```
yaml
author: Steve Francia <spf@spf13.com>
license: MIT
```

You can specify no license by setting `license` to `none` or you can specify a custom license:

```
```
yaml
license:
  header: This file is part of {{ .appName }}.
  text: |
    {{ .copyright }}

This is my license. There are many like it, but this one is mine.
My license is my best friend. It is my life. I must master it as I must master my life.
```

You can also use built-in licenses. For example, **GPLv2**, **GPLv3**, **LGPL**, **AGPL**, **MIT**, **2-Clause BSD** or **3-Clause BSD**.

## Manually implementing Cobra

To manually implement Cobra you need to create a bare main.go file and a RootCmd file. You will optionally provide additional commands as you see fit.

### Create the root command

The root command represents your binary itself.
#### Manually create rootCmd

Cobra doesn't require any special constructors. Simply create your commands.

Ideally you place this in app/cmd/root.go:

```go
var RootCmd = &cobra.Command{
Use:   "hugo",
Short: "Hugo is a very fast static site generator",
Long: `A Fast and Flexible Static Site Generator built with
   love by spf13 and friends in Go.
   Complete documentation is available at http://hugo.spf13.com`,
Run: func(cmd *cobra.Command, args []string) {
// Do Stuff Here
},
}
```

You will additionally define flags and handle configuration in your init() function.

For example cmd/root.go:

```go
import (   
"fmt"
"os"
  homedir "github.com/mitchellh/go-homedir"
  "github.com/spf13/cobra"
  "github.com/spf13/viper"
)

func init() {
  cobra.OnInitialize(initConfig)
  RootCmd.PersistentFlags().StringVar(&cfgFile, "config", ",", "config file (default is $HOME/.cobra.yaml)")
  RootCmd.PersistentFlags().StringVarP(&projectBase, "projectbase", "b", ",", "base project directory eg. github.com/spf13/"
  RootCmd.PersistentFlags().StringP("author", "a", "YOUR NAME", "Author name for copyright attribution")
  RootCmd.PersistentFlags().StringVarP(&userLicense, "license", "l", "","Name of license for the project (can provide 'licensetext' in config")
  RootCmd.PersistentFlags().Bool("viper", true, "Use Viper for configuration")
  viper.BindPFlag("author", RootCmd.PersistentFlags().Lookup("author"))
  viper.BindPFlag("projectbase", RootCmd.PersistentFlags().Lookup("projectbase"))
  viper.BindPFlag("useViper", RootCmd.PersistentFlags().Lookup("viper"))
  viper.SetDefault("author", "NAME HERE <EMAIL ADDRESS>")
  viper.SetDefault("license", "apache")
```
```go
package main
import (
    "fmt"
    "os"
    "{pathToYourApp}/cmd"
)
```

### Create your main.go

With the root command you need to have your main function execute it. Execute should be run on the root for clarity, though it can be called on any command.

In a Cobra app, typically the main.go file is very bare. It serves, one purpose, to initialize Cobra.

```go
```
```go
func main() {
if err := cmd.RootCmd.Execute(); err != nil {
    fmt.Println(err)
    os.Exit(1)
}
}
```
### Remove a command from its parent

Removing a command is not a common action in simple programs, but it allows 3rd parties to customize an existing command tree.

In this example, we remove the existing `VersionCmd` command of an existing root command, and we replace it with our own version:

```go
mainlib.RootCmd.AddCommand(versionCmd)
```

## Working with Flags

Flags provide modifiers to control how the action command operates.

### Assign flags to a command

Since the flags are defined and used in different locations, we need to define a variable outside with the correct scope to assign the flag to work with.

```go
var Verbose bool
var Source string
```

There are two different approaches to assign a flag.

### Persistent Flags

A flag can be 'persistent' meaning that this flag will be available to the command it's assigned to as well as every command under that command. For global flags, assign a flag as a persistent flag on the root.

```go
RootCmd.PersistentFlags().BoolVarP(&Verbose, "verbose", "v", false, "verbose output")
```

### Local Flags

A flag can also be assigned locally which will only apply to that specific command.

```go
RootCmd.Flags().StringVarP(&Source, "source", "s", ",", "Source directory to read from")
```
### Bind Flags with Config

You can also bind your flags with [viper](https://github.com/spf13/viper):
```go
var author string
func init() {
    RootCmd.PersistentFlags().StringVar(&author, "author", "YOUR NAME", "Author name for copyright attribution")
    viper.BindPFlag("author", RootCmd.PersistentFlags().Lookup("author"))
}
```

In this example the persistent flag `author` is bound with `viper`.

**Note**, that the variable `author` will not be set to the value from config, when the `-author` flag is not provided by user.

More in [viper documentation](https://github.com/spf13/viper#working-with-flags).

## Example

In the example below, we have defined three commands. Two are at the top level and one (cmdTimes) is a child of one of the top commands. In this case the root is not executable meaning that a subcommand is required. This is accomplished by not providing a 'Run' for the 'rootCmd'.

We have only defined one flag for a single command.

More documentation about flags is available at https://github.com/spf13/pflag

```go
google
package main

import (
    "fmt"
    "strings"
    "github.com/spf13/cobra"
)

func main() {
    var echoTimes int
    var cmdPrint = &cobra.Command{
        Use:   "print [string to print]",
        Short: "Print anything to the screen",
        Long:  "print is for printing anything back to the screen."
    }
```
For many years people have printed back to the screen.

```
Run: func(cmd *cobra.Command, args []string) {
    fmt.Println("Print: " + strings.Join(args, " "))
},
}

var cmdEcho = &cobra.Command{
    Use: "echo [string to echo]",
    Short: "Echo anything to the screen",
    Long: "echo is for echoing anything back.
    Echo works a lot like print, except it has a child command.
    ",
    Run: func(cmd *cobra.Command, args []string) {
        fmt.Println("Print: " + strings.Join(args, " "))
    },
}

var cmdTimes = &cobra.Command{
    Use: "times [# times] [string to echo]",
    Short: "Echo anything to the screen more times",
    Long: "echo things multiple times back to the user by providing
    a count and a string."
    Run: func(cmd *cobra.Command, args []string) {
        for i := 0; i < echoTimes; i++ {
            fmt.Println("Echo: " + strings.Join(args, " "))
        }
    },

    cmdTimes.Flags().IntVarP(&echoTimes, "times", "t", 1, "times to echo the input")
}

var rootCmd = &cobra.Command{Use: "app"}
rootCmd.AddCommand(cmdPrint, cmdEcho)
cmdEcho.AddCommand(cmdTimes)
rootCmd.Execute()
```
### Example

The following output is automatically generated by Cobra. Nothing beyond the command and flag definitions are needed.

```
> hugo help
```

hugo is the main command, used to build your Hugo site.

Hugo is a Fast and Flexible Static Site Generator
built with love by spf13 and friends in Go.

Complete documentation is available at http://gohugo.io/.

Usage:
```
hugo [flags]
hugo [command]
```

Available Commands:
```
server     Hugo runs its own webserver to render the files
version    Print the version number of Hugo
config     Print the site configuration
check      Check content in the source directory
benchmark  Benchmark hugo by building a site a number of times.
convert    Convert your content to different formats
new        Create new content for your site
list       Listing out various types of content
undraft    Undraft changes the content's draft status from 'True' to 'False'
genautocomplete Generate shell autocompletion script for Hugo
genman     Generate man page for Hugo
import     Import your site from others.
```

Flags:
```
-b, --baseURL="": hostname (and path) to the root, e.g. http://spf13.com/
-D, --buildDrafts=[false]: include content marked as draft
-F, --buildFuture=[false]: include content with publishdate in the future
    --cacheDir="": filesystem path to cache directory. Defaults: $TMPDIR/hugo_cache/
    --canonifyURLs=[false]: if true, all relative URLs will be canonicalized using baseURL
    --config="": config file (default is path/config.yaml|json|toml)
-d, --destination="": filesystem path to write files to
    --disableRSS=[false]: Do not build RSS files
    --disableSitemap=[false]: Do not build Sitemap file
    --editor="": edit new content with this editor, if provided
    --ignoreCache=[false]: Ignores the cache directory for reading but still writes to it
    --log=[false]: Enable Logging
    --logFile="": Log File path (if set, logging enabled automatically)
```
--noTimes=false: Don't sync modification time of files
--pluralizeListTitles=true: Pluralize titles in lists using inflect
--preserveTaxonomyNames=false: Preserve taxonomy names as written ("Gérard Depardieu" vs "gerard-depardieu")
-s, --source='': filesystem path to read files relative from
--stepAnalysis=false: display memory and timing of different steps of the program
-t, --theme='': theme to use (located in /themes/THEMENAME/)
--uglyURLs=false: if true, use /filename.html instead of /filename/
-v, --verbose=false: verbose output
--verboseLog=false: verbose logging
-w, --watch=false: watch filesystem for changes and recreate as needed

Use "hugo [command] --help" for more information about a command.

Help is just a command like any other. There is no special logic or behavior around it. In fact, you can provide your own if you want.

### Defining your own help

You can provide your own Help command or your own template for the default command to use.

The default help command is

```go
func (c *Command) initHelp() {
    if c.helpCommand == nil {
        c.helpCommand = &Command{
            Use:   "help [command]",
            Short: "Help about any command",
            Long:  "Help provides help for any command in the application.
            Simply type ` + c.Name() + ` help [path to command] for full details.`,
            Run:  c.HelpFunc(),
        }
        c.AddCommand(c.helpCommand)
    }
}
```

You can provide your own command, function or template through the following methods:

```go
command.SetHelpCommand(cmd *Command)
command.SetHelpFunc(f func(*Command, []string))
command.SetHelpTemplate(s string)
```
The latter two will also apply to any children commands.

## Usage

When the user provides an invalid flag or invalid command, Cobra responds by showing the user the 'usage'.

### Example

You may recognize this from the help above. That's because the default help embeds the usage as part of its output.

Usage:

```
hugo [flags]
hugo [command]
```

Available Commands:

- `server`: Hugo runs its own webserver to render the files
- `version`: Print the version number of Hugo
- `config`: Print the site configuration
- `check`: Check content in the source directory
- `benchmark`: Benchmark hugo by building a site a number of times.
- `convert`: Convert your content to different formats
- `new`: Create new content for your site
- `list`: Listing out various types of content
- `undraft`: Undraft changes the content's draft status from 'True' to 'False'
- `genautocomplete`: Generate shell autocompletion script for Hugo
- `gendoc`: Generate Markdown documentation for the Hugo CLI.
- `genman`: Generate man page for Hugo
- `import`: Import your site from others.

Flags:

- `-b, --baseURL="": hostname (and path) to the root, e.g. http://spf13.com/
- `-D, --buildDrafts[=false]: include content marked as draft
- `-F, --buildFuture[=false]: include content with publishdate in the future
- `--cacheDir="": filesystem path to cache directory. Defaults: STMPDIR/hugo_cache/
- `--canonifyURLs[=false]: if true, all relative URLs will be canonicalized using baseURL
- `--config="": config file (default is path/config.yaml|json|toml)
- `-d, --destination="": filesystem path to write files to
- `--disableRSS[=false]: Do not build RSS files
- `--disableSitemap[=false]: Do not build Sitemap file
- `--editor="": edit new content with this editor, if provided
- `--ignoreCache[=false]: Ignores the cache directory for reading but still writes to it
- `--log[=false]: Enable Logging
- `--logFile="": Log File path (if set, logging enabled automatically)
- `--noTimes[=false]: Don't sync modification time of files
- `--pluralizeListTitles[=true]: Pluralize titles in lists using inflect
- `--preserveTaxonomyNames[=false]: Preserve taxonomy names as written ("Gérard Depardieu" vs "gerard-
### Defining your own usage
You can provide your own usage function or template for Cobra to use.

The default usage function is:

```go
return func(c *Command) error {
    err := tmpl(c.Out(), c.UsageTemplate(), c)
    return err
}
```

Like help, the function and template are overridable through public methods:

```go
command.SetUsageFunc(f func(*Command) error)
command.SetUsageTemplate(s string)
```

### PreRun or PostRun Hooks

It is possible to run functions before or after the main `Run` function of your command. The `PersistentPreRun` and `PreRun` functions will be executed before `Run`. `PersistentPostRun` and `PostRun` will be executed after `Run`. The `PersistentPostRun` functions will be inherited by children if they do not declare their own. These functions are run in the following order:

- `PersistentPreRun`
- `PreRun`
- `Run`
- `PostRun`
- `PersistentPostRun`

An example of two commands which use all of these features is below. When the subcommand is executed, it will run the root command's `PersistentPreRun` but not the root command's `PersistentPostRun`:

```go
package main
```
import (  
"fmt"

"github.com/spf13/cobra"
)

func main() {

var rootCmd = &cobra.Command{
Use:  "root [sub]",
Short: "My root command",
PersistentPreRun: func(cmd *cobra.Command, args []string) {
fmt.Printf("Inside rootCmd PersistentPreRun with args: %v\n", args)
},
PreRun: func(cmd *cobra.Command, args []string) {
fmt.Printf("Inside rootCmd PreRun with args: %v\n", args)
},
Run: func(cmd *cobra.Command, args []string) {
fmt.Printf("Inside rootCmd Run with args: %v\n", args)
},
PostRun: func(cmd *cobra.Command, args []string) {
fmt.Printf("Inside rootCmd PostRun with args: %v\n", args)
},
PersistentPostRun: func(cmd *cobra.Command, args []string) {
fmt.Printf("Inside rootCmd PersistentPostRun with args: %v\n", args)
}
}

var subCmd = &cobra.Command{
Use:  "sub [no options!]",
Short: "My subcommand",
PreRun: func(cmd *cobra.Command, args []string) {
fmt.Printf("Inside subCmd PreRun with args: %v\n", args)
},
Run: func(cmd *cobra.Command, args []string) {
fmt.Printf("Inside subCmd Run with args: %v\n", args)
},
PostRun: func(cmd *cobra.Command, args []string) {
fmt.Printf("Inside subCmd PostRun with args: %v\n", args)
},
PersistentPostRun: func(cmd *cobra.Command, args []string) {
fmt.Printf("Inside subCmd PersistentPostRun with args: %v\n", args)
}
}

rootCmd.AddCommand(subCmd)

rootCmd.SetArgs([]string{""})
```go
package main

import (
    "errors"
    "log"
    "github.com/spf13/cobra"
)

func main() {
    var rootCmd = &cobra.Command{
        Use:   "hugo",
        Short: "Hugo is a very fast static site generator",
        Long: `A Fast and Flexible Static Site Generator built with
               love by spf13 and friends in Go.
               Complete documentation is available at http://hugo.spf13.com`,
        RunE: func(cmd *cobra.Command, args []string) error {
            // Do Stuff Here
            return errors.New("some random error")
        },
    }
```

## Alternative Error Handling

Cobra also has functions where the return signature is an error. This allows for errors to bubble up to the top, providing a way to handle the errors in one location. The current list of functions that return an error is:

* PersistentPreRunE
* PreRunE
* RunE
* PostRunE
* PersistentPostRunE

If you would like to silence the default `error` and `usage` output in favor of your own, you can set `SilenceUsage` and `SilenceErrors` to `true` on the command. A child command respects these flags if they are set on the parent command.

**Example Usage using RunE:**

```go
```
if err := rootCmd.Execute(); err != nil {
    log.Fatal(err)
}
```

## Suggestions when "unknown command" happens

Cobra will print automatic suggestions when "unknown command" errors happen. This allows Cobra to behave similarily to the `git` command when a typo happens. For example:

```
$ hugo srever
Error: unknown command "srever" for "hugo"

Did you mean this?
    server

Run `hugo --help` for usage.
```

Suggestions are automatic based on every subcommand registered and use an implementation of [Levenshtein distance](http://en.wikipedia.org/wiki/Levenshtein_distance). Every registered command that matches a minimum distance of 2 (ignoring case) will be displayed as a suggestion.

If you need to disable suggestions or tweak the string distance in your command, use:

```
go
cmd.DisableSuggestions = true
```

or

```
go
cmdSuggestionsMinimumDistance = 1
```

You can also explicitly set names for which a given command will be suggested using the `SuggestFor` attribute. This allows suggestions for strings that are not close in terms of string distance, but makes sense in your set of commands and for some which you don't want aliases. Example:

```
$ kubectl remove
Error: unknown command "remove" for "kubectl"

Did you mean this?
    delete
Run `kubectl help` for usage.
```
```
## Generating Markdown-formatted documentation for your command

Cobra can generate a Markdown-formatted document based on the subcommands, flags, etc. A simple example of how to do this for your command can be found in [Markdown Docs](doc/md_docs.md).

## Generating man pages for your command

Cobra can generate a man page based on the subcommands, flags, etc. A simple example of how to do this for your command can be found in [Man Docs](doc/man_docs.md).

## Generating bash completions for your command

Cobra can generate a bash-completion file. If you add more information to your command, these completions can be amazingly powerful and flexible. Read more about it in [Bash Completions](bash_completions.md).

## Debugging

Cobra provides a `DebugFlags` method on a command which, when called, will print out everything Cobra knows about the flags for each command.

### Example
```
```go
command.DebugFlags()
```
```
## Extensions

Libraries for extending Cobra:

* [cmdns](https://github.com/gosuri/cmdns): Enables name spacing a command's immediate children. It provides an alternative way to structure subcommands, similar to `heroku apps:create` and `ovrclk clusters:launch`.

## Contributing

1. Fork it
2. Create your feature branch (`git checkout -b my-new-feature`)
3. Commit your changes (`git commit -am 'Add some feature'`)
4. Push to the branch (`git push origin my-new-feature`)
5. Create new Pull Request

## Contributors

Names in no particular order:
* [spf13](https://github.com/spf13),
  [eparis](https://github.com/eparis),
  [bep](https://github.com/bep), and many more!

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[LICENSE.txt](https://github.com/spf13/cobra/blob/master/LICENSE.txt)

### 1.125 go-spf13-jwalterweatherman

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1.130 go-stretchr-objx
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1.132 go-testify
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1.138 go.uuid 1.2.0

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1.139 golang 1.12

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1.140 golang 1.6.1

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1.146 gorilla-websocket v1.4.0

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1.157 icu 51.2 :r0

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bs symbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCCFLAGS) $(STATICCFLAGS) -o $@
$<
## Dependency rules

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

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

## Versioned libraries rules

%.$(SO).$(SO\_TARGET\_VERSION\_MAJOR): %.$(SO).$(SO\_TARGET\_VERSION)
$(RM) $@ && ln -s {$<} $@

%.$(SO): %.$(SO).$(SO\_TARGET\_VERSION\_MAJOR)
$(RM) $@ && ln -s {$<} $(SO).$(SO\_TARGET\_VERSION) $@

## End FreeBSD-specific setup

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1.158 Inetutils 1.9.4

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

### 1.159 init-ifupdown 1.0

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```
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1.170 jackson-annotations 2.3.1

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.175 json-c 0.12
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1.176 json-c/test-driver 0.12

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scriptversion=2012-06-27.10; # UTC

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spawn_console.c spawn_login.c
chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1
getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8
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1.182 krb5 1.13.2

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```
cmd/krb5/prop/prop.x
```
```
cmd/krb5/prop/prop_hdr.h
```
```
cmd/krb5/kadmin/server/propd_svc.c
```
```
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/propd_svc.c
```
```
lib/gss_mechs/mehk5/et/kdb5_err.c
```
```
lib/gss_mechs/mehk_spnego/mech/gssapiP_spnego.h
```
```
lib/gss_mechs/mehk_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_srv_names.c
```
```
lib/krb5/kdb/kdb_convert.c
```
```
lib/krb5/kdb/kdb_hdr.h
```
```
lib/krb5/kdb/kdb_log.c
```
```
lib/krb5/kdb/kdb_log.h
```
```
lib/libgss/g_accept_sec_context.c
```
```
lib/libgss/g_acquire_cred.c
```
```
lib/libgss/g_canon_name.c
```
```
lib/libgss/g_compare_name.c
```
```
lib/libgss/g_context_time.c
```
```
lib/libgss/g_delete_sec_context.c
```
```
lib/libgss/g_dsp_name.c
```
```
lib/libgss/g_dsp_status.c
```
```
lib/libgss/g_dup_name.c
```
```
lib/libgss/g_exp_sec_context.c
```
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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

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

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This code is derived from section 17.1 of Applied Cryptography, 
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compatible with RSA Labs "RC4" cipher (the actual description of 
which is a trade secret). The same algorithm is used as a stream 
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Here the stream cipher has been modified always to include the time 
when initializing the state. That makes it impossible to 
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To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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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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1.194 libgpg-error 1.19 :2
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Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg" (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson

March 26, 2015

1.203 libseccomp 2.3.3 :0.0
1.203.1 Available under license:

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Section 6 states terms for distribution of such executables.

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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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1.205 libtalloc 2.1.3 :r0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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for the or51211 and or51132 frontend drivers, and
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single nxt200x frontend driver.

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

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

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If distribution of object code is made by offering access to copy
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the 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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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
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*
* 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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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
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}
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```

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single nxt200x frontend driver.

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1.238 net-snmp 5.7.3

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- Michael Barone (michael.barone@lmco.com): GPSVME fixes
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- Greg Brackley (greg.brackley@bigfoot.com): Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules
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Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance

David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36

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28. Frank Kardel <kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
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/* *. Mode: Text *. */

copyright = {
    date = "1992-2017";
    owner = "The University of Delaware and Network Time Foundation";
    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    type = ntp;
};

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`\n\[ -z "$\{VERSION\}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid\necho $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 = 's/#VERSION#<<version>>/g';

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1.253 numactl 2.0.10 :r0

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1.258 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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ABSTRACT

OSSP uuid is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universally Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood
of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

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HOME AND DOCUMENTATION

The documentation and latest release can be found on

- http://www.ossp.org/pkg/lib/uuid/

OSSP uuid - Universally Unique Identifier
AUTHORS

This is a list of authors who have written
or edited major parts of the OSSP uuid sources.

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1.266 pam-ldap 184

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The End
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the @Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

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

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

# perl

copyright.t

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.
use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";
    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;
    my ($year) = $copyright_msg =~ /.*\d{4,}/s
    or die "Year not found in README copyright message '$copyright_msg'";
$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b\d\{4,\}/i
  or die "Copyright statement not found in perl -v output "$output"; 

$year;
}

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Version 1, February 1989

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under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
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<signature of Ty Coon>, 1 April 1989
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The End

1.275 pigz 2.3.3 :1.el7

1.275.1 Available under license:

Mark Adler
Jyrki Alakuijala
Frédéric Kayser
Daniel Reed
Huzaifa Sidhpurwala
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1.277 pixman 0.32.6

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ppp-2.1.2b/netbsd-current/if_ppp.h
ppp-2.1.2b/pppd/fsm.c
ppp-2.1.2b/pppd/fsm.h
ppp-2.1.2b/pppd/ipcp.c
ppp-2.1.2b/pppd/ipcp.h
ppp-2.1.2b/pppd/lcp.c
ppp-2.1.2b/pppd/lcp.h
ppp-2.1.2b/pppd/magic.c
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ppp-2.1.2b/pppd/ppp.h
ppp-2.1.2b/pppd/pppd.h
ppp-2.1.2b/pppd/sys-bsd.c
ppp-2.1.2b/pppd/sys-linux.c
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1.281 procps 3.3.10

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1.285 protobuf-c 1.2.0 :debden

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1.286 pyasn1 0.1.7

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1.287 pyrad 1.2

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1.288 python 2.7.9

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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# Default configuration for i386-bsd-user
# Default configuration for sparc-bsd-user
# Default configuration for x86_64-bsd-user
# Default configuration for sparc64-bsd-user

/*
 * FreeBSD strace list
 *
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 */

{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(""%s"", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s(""%s"", %d, %#x)"", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s(""%s"", %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s(""%s"", %d)"", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)"", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(""%s"", %d, %#x)"", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(""%s"", %d, %#x)"", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_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__syscall, "__syscall", NULL, print_syscall, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "__umtx_op", "%s(%#x, %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_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(""%s",%d,%d,%s","%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,%d,"%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(""%s",%d,"%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d,%d,"%s",%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(""%s",%d,%d,"%s",%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "%s(""%s",%d,%d,"%s",%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d,%d,%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(""%s",%d,%d,%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(""%s",%d,%d,%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d,%d,"%s",%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(""%s",%d,%d,"%s",%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,%""%s",%#x,%d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirent, "getdirent", "getdirent", "null", NULL },
{ TARGET_FREEBSD_NR_rfreebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_unlink, "unlink", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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I made the decision to license libfdt in this way because I want to encourage widespread and correct usage of flattened device trees, including by proprietary or otherwise GPL incompatible firmware or tools. Allowing libfdt to be used under the terms of the BSD license makes it easier for vendors or authors of such software to do so.

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Licenses such as the LGPL which would allow code to be used in non-GPL software, but also require contributions to be returned were considered. However, libfdt is designed to be used in firmwares and other environments with unusual technical constraints. It's difficult to anticipate all possible changes which might be needed to meld libfdt into such environments and so difficult to suitably word a license that puts the boundary between what is and isn't permitted in the intended place. Again, I judged encouraging widespread use of libfdt by keeping the license terms simple and familiar to be the more important goal.

**IMPORTANT** It's intended that all of libfdt as released remain permissively licensed this way. Therefore only contributions which are released under these terms can be merged into the libfdt mainline.

David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
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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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/*
* FreeBSD strace list
*
*/

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<td>&quot;reboot&quot;, NULL, NULL, NULL</td>
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<tr>
<td>TARGET_FREEBSD_NR_recvfrom</td>
<td>&quot;recvfrom&quot;, NULL, NULL, NULL</td>
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<tr>
<td>TARGET_FREEBSD_NR_recevmsg</td>
<td>&quot;recevmsg&quot;, NULL, NULL, NULL</td>
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<tr>
<td>TARGET_FREEBSD_NR_rename</td>
<td>&quot;rename&quot;, &quot;%s(&quot;%s&quot;,&quot;%s&quot;)&quot;, NULL, NULL</td>
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<tr>
<td>TARGET_FREEBSD_NR_revoke</td>
<td>&quot;revoke&quot;, NULL, NULL, NULL</td>
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<tr>
<td>TARGET_FREEBSD_NR_rfork</td>
<td>&quot;rfork&quot;, NULL, NULL, NULL</td>
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<tr>
<td>TARGET_FREEBSD_NR_rmdir</td>
<td>&quot;rmdir&quot;, NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_rtprio_thread</td>
<td>&quot;rtprio_thread&quot;, &quot;%s(%d,%d,%p)&quot;, NULL, NULL</td>
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<tr>
<td>TARGET_FREEBSD_NR_rshrk</td>
<td>&quot;rsrk&quot;, NULL, NULL, NULL</td>
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<tr>
<td>TARGET_FREEBSD_NR_sched_yield</td>
<td>&quot;sched_yield&quot;, NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_select</td>
<td>&quot;select&quot;, NULL, NULL, NULL</td>
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{ TARGT_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGT_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setsocket, "setsocket", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGT_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_stat, "stat", "%s("%s",%p)", NULL, NULL },
{ TARGT_FREEBSD_NR_statfs, "%s("%s",%p)", NULL, NULL },
{ TARGT_FREEBSD_NR_symlink, "symlink", "%s("%s",%s")", NULL, NULL },
{ TARGT_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGT_FREEBSD_NR_th_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGT_FREEBSD_NR_th_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGT_FREEBSD_NR_th_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGT_FREEBSD_NR_th_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGT_FREEBSD_NR_th_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGT_FREEBSD_NR_th_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR THR_SET_NAME, "THR_SET_NAME", "%s(%d,\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR THR_SUSPEND, "THR_SUSPEND", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR THR_WAKE, "THR_WAKE", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR THR_TRUNCATE, "TRUNCATE", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR THR_UNMASK, "UMASK", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR THR_UNLINK, "UNLINK", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR THR_UNMOUNT, "UNMOUNT", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR THR_UTIMES, "UTIMES", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR THR_VFORK, "VFORK", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR THR_WAIT4, "WAIT4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR THR_WRITE, "WRITE", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR THR_WRITEV, "WRITEV", "%s(%d,%p,%#x)", NULL, NULL },
/*
* System call numbers.
*
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/
#define TARGET_FREEBSD_NR_SYSCALL   0
#define TARGET_FREEBSD_NR_EXIT  1
#define TARGET_FREEBSD_NR_FORK  2
#define TARGET_FREEBSD_NR_READ  3
#define TARGET_FREEBSD_NR_WRITE 4
#define TARGET_FREEBSD_NR_OPEN  5
#define TARGET_FREEBSD_NR_CLOSE 6
#define TARGET_FREEBSD_NR_WAIT4 7
    /* 8 is old creat */
#define TARGET_FREEBSD_NR_LINK  9
#define TARGET_FREEBSD_NR_UNLINK 10
    /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_CHDIR 12
#define TARGET_FREEBSD_NR_FCHDIR 13
#define TARGET_FREEBSD_NR_MKNOD 14
#define TARGET_FREEBSD_NR_CHMOD 15
#define TARGET_FREEBSD_NR_CHOWN 16
#define TARGET_FREEBSD_NR_BREAK 17
#define TARGET_FREEBSD_NR_Freebsd4_getfsstat 18
    /* 19 is old lseek */
#define TARGET_FREEBSD_NR_GETPID  20
#define TARGET_FREEBSD_NR_MOUNT  21
#define TARGET_FREEBSD_NRUnmount  22
#define TARGET_FREEBSD_NR_SETUID  23
#define TARGET_FREEBSD_NR_GETUID  24
#define TARGET_FREEBSD_NR_GETEUID 25
#define TARGET_FREEBSD_NR_PTRACE 26
#define TARGET_FREEBSD_NR_RECVMSG 27
#define TARGET_FREEBSD_NR_SENDMSG 28
#define TARGET_FREEBSD_NR_recvfrom  29
#define TARGET_FREEBSD_NR_accept  30
#define TARGET_FREEBSD_NR_getpeername  31
#define TARGET_FREEBSD_NR_getsockname  32
#define TARGET_FREEBSD_NR_access  33
#define TARGET_FREEBSD_NR_chflags  34
#define TARGET_FREEBSD_NR_fchflags  35
#define TARGET_FREEBSD_NR_sync  36
#define TARGET_FREEBSD_NR_kill  37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid  39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup  41
#define TARGET_FREEBSD_NRPipe  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_getegid  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_getpgprp 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
/* 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
```c
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mknifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 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 gethostname */
#define TARGET_FREEBSD_NR_quotactl 148
#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_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_semmsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
```
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirent 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_msgsget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_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_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_signsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_siganction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigtimer 344
#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_mac_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 364
#define TARGET_FREEBSD_NR_extattr_get_fd 365
#define TARGET_FREEBSD_NR_extattr_delete_fd 366
#define TARGET_FREEBSD_NR___setugid 367
#define TARGET_FREEBSD_NR_eaccess 368
#define TARGET_FREEBSD_NR_afs3_syscall 369
#define TARGET_FREEBSD_NR_nmount 370
#define TARGET_FREEBSD_NR___mac_get_proc 371
#define TARGET_FREEBSD_NR___mac_get_setproc 372
#define TARGET_FREEBSD_NR___mac_get_setproc 373
#define TARGET_FREEBSD_NR___setuid 374
#define TARGET_FREEBSD_NR_eaccess 375
#define TARGET_FREEBSD_NR_afs3_syscall 376
#define TARGET_FREEBSD_NR_nmount 377
#define TARGET_FREEBSD_NR___mac_get_proc 378
#define TARGET_FREEBSD_NR___mac_get_setproc 379
#define TARGET_FREEBSD_NR___mac_get_setproc 380
#define TARGET_FREEBSD_NR___mac_get_setproc 381
#define TARGET_FREEBSD_NR___mac_set_file 382
#define TARGET_FREEBSD_NR___mac_set_fileno 383
#define TARGET_FREEBSD_NR___mac_set_fd 384
#define TARGET_FREEBSD_NR___mac_set_fileno 385
#define TARGET_FREEBSD_NR___mac_set_fileno 386
#define TARGET_FREEBSD_NR___mac_set_fileno 387
#define TARGET_FREEBSD_NR___mac_set_fileno 388
#define TARGET_FREEBSD_NR___mac_set_fileno 389
#define TARGET_FREEBSD_NR___mac_set_fileno 390
#define TARGET_FREEBSD_NR_kenv 391
#define TARGET_FREEBSD_NR_lchflags 392
#define TARGET_FREEBSD_NR_uuidgen 393
#define TARGET_FREEBSD_NR_sendfile 394
#define TARGET_FREEBSD_NR___mac_syscall 395
#define TARGET_FREEBSD_NR_getfsstat 396
#define TARGET_FREEBSD_NR_statfs 397
#define TARGET_FREEBSD_NR_fstatfs     397
#define TARGET_FREEBSD_NR_fhstatfs    398
#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_open   404
#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_destroy 415
#define TARGET_FREEBSD_NR__/mac_execve 416
#define TARGET_FREEBSD_NR__/sigaction 417
#define TARGET_FREEBSD_NR__/setcontext 421
#define TARGET_FREEBSD_NR__/swapcontext 422
#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
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#define TARGET_FREEBSD_NR_posix_fallocate 529
#define TARGET_FREEBSD_NR_posix_fadvise 530
#define TARGET_FREEBSD_NR_MAXSYSCALL 532

/* OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp */

/*
* System call numbers.
*
* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
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/* 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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* such damage.
*
* #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 01:33:52 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_ENOTTTY          25              /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY          26              /* Text file busy */
#define TARGET_EFBIG            27              /* File too large */
#define TARGET_ENOSPC           28              /* No space left on device */
#define TARGET_ESPIPE           29              /* Illegal seek */
#define TARGET_EROFS            30              /* Read-only file system */
#define TARGET_EMLINK           31              /* Too many links */
#define TARGET_EPIPE            32              /* Broken pipe */

   /* math software */
#define TARGET_EDOM             33              /* Numerical argument out of domain */
#define TARGET_ERANGE           34              /* Result too large */

   /* non-blocking and interrupt i/o */
#define TARGET_EAGAIN           35              /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK      EAGAIN          /* Operation would block */
#define TARGET_EINPROGRESS      36              /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMGSIZE 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_EMEDIUMTYPE    86  /* Wrong Medium Type */
#define TARGET_EOVERFLOW      87  /* Conversion overflow */
#define TARGET_ECANCELED      88  /* Operation canceled */
#define TARGET_EIDRM          89  /* Identifier removed */
#define TARGET_ENOMSG         90  /* No message of desired type */
#define TARGET_ELAST          90  /* Must be equal largest errno */

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
 * System call numbers.
 *
 * created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
 */

#define TARGET_NETBSD_NR_syscall   0
#define TARGET_NETBSD_NR_exit      1
#define TARGET_NETBSD_NR_fork      2
#define TARGET_NETBSD_NR_read      3
#define TARGET_NETBSD_NR_write     4
#define TARGET_NETBSD_NR_open      5
#define TARGET_NETBSD_NR_close     6
#define TARGET_NETBSD_NR_wait4     7
#define TARGET_NETBSD_NR_compat_43_ocrcreat 8
#define TARGET_NETBSD_NR_link      9
#define TARGET_NETBSD_NR_unlink    10
#define TARGET_NETBSD_NR_chdir     12
#define TARGET_NETBSD_NR_fchdir    13
#define TARGET_NETBSD_NR_mknod     14
#define TARGET_NETBSD_NR_chmod     15
#define TARGET_NETBSD_NR_chown     16
#define TARGET_NETBSD_NR_break     17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid    20
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NRUnmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_getegid 24
#define TARGET_NETBSD_NR_recvfrom 25
#define TARGET_NETBSD_NR_sendmsg 26
#define TARGET_NETBSD_NR_recvmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_acct 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_getsockname 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigsuspend13 52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13 53
#define TARGET_NETBSD_NR_ioctl 54
#define TARGET_NETBSD_NR_compat_12_oreboot 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symmlink 57
#define TARGET_NETBSD_NR_readlink 58
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_fstat43 63
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork 66
#define TARGET_NETBSD_NR_sbrk 69
#define TARGET_NETBSD_NR_sstk 70
#define TARGET_NETBSD_NR_compat_43_ommap 71
#define TARGET_NETBSD_NR_vadvise 72
#define TARGET_NETBSD_NR_munmap 73
#define TARGET_NETBSD_NR_mprotect 74
#define TARGET_NETBSD_NR_madvise 75
#define TARGET_NETBSD_NR_mincore 78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#define TARGET_NETBSD_NR_getpgrp 81
#define TARGET_NETBSD_NR_setpgid 82
#define TARGET_NETBSD_NR_setitimer 83
#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85
#define TARGET_NETBSD_NR_getitimer 86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_osethostname 88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2 90
#define TARGET_NETBSD_NR_fcntl 92
#define TARGET_NETBSD_NR_select 93
#define TARGET_NETBSD_NR_fsync 95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect 98
#define TARGET_NETBSD_NR_compat_43_accept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend 101
#define TARGET_NETBSD_NR_compat_43_orecv 102
#define TARGET_NETBSD_NR_compat_13_sigreturn 103
#define TARGET_NETBSD_NR_bind 104
#define TARGET_NETBSD_NR_setssockopt 105
#define TARGET_NETBSD_NR_listen 106
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_13_suspend 111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_osendcode 113
#define TARGET_NETBSD_NR_connect 114
#define TARGET_NETBSD_NR_gettimeofday 116
#define TARGET_NETBSD_NR_getusage 117
#define TARGET_NETBSD_NR_setssockopt 118
#define TARGET_NETBSD_NR_readv 120
#define TARGET_NETBSD_NR_writev 121
#define TARGET_NETBSD_NR_settimeofday 122
#define TARGET_NETBSD_NR_fchown 123
#define TARGET_NETBSD_NR_fchmod 124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setregid 127
#define TARGET_NETBSD_NR_rename 128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate 130
#define TARGET_NETBSD_NR_flock 131
#define TARGET_NETBSD_NR_mkfifo 132
#define TARGET_NETBSD_NR_sendto 133
#define TARGET_NETBSD_NR_shutdown 134
#define TARGET_NETBSD_NR_socketpair 135
#define TARGET_NETBSD_NR_mkdir 136
#define TARGET_NETBSD_NR_rmdir 137
#define TARGET_NETBSD_NR_utimes 138
#define TARGET_NETBSD_NR_adjtime 140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
#define TARGET_NETBSD_NR_compat_43_ogethostid 142
#define TARGET_NETBSD_NR_compat_43_osethostid 143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144
#define TARGET_NETBSD_NR_compat_43_osetrlimit 145
#define TARGET_NETBSD_NR_compat_43_okillpg 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_oquota 149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc 155
#define TARGET_NETBSD_NR_compat_43_ogetdirentries 156
#define TARGET_NETBSD_NR_compat_20_statfs 157
#define TARGET_NETBSD_NR_compat_20_fstatfs 158
#define TARGET_NETBSD_NR_compat_30_getfh 161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 162
#define TARGET_NETBSD_NR_compat_09_osetdomainname 163
#define TARGET_NETBSD_NR_compat_09_ouname 164
#define TARGET_NETBSD_NR_sysarch 165
#define TARGET_NETBSD_NR_compat_10_osemsys 169
#define TARGET_NETBSD_NR_compat_10_omsgsys 170
#define TARGET_NETBSD_NR_compat_10_oshmsys 171
#define TARGET_NETBSD_NR_pread 173
#define TARGET_NETBSD_NR_twrite 174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime 175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid 181
#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_clean   186
#define TARGET_NETBSD_NR_lfs段   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___sysctl   202
#define TARGET_NETBSD_NR_mlock   203
#define TARGET_NETBSD_NR_munlock   204
#define TARGET_NETBSD_NR_undelete  205
#define TARGET_NETBSD_NR_futimes  206
#define TARGET_NETBSD_NR_getpgid   207
#define TARGET_NETBSD_NR_reboot  208
#define TARGET_NETBSD_NR_poll   209
#define TARGET_NETBSD_NR_compat_14___semctl  220
#define TARGET_NETBSD_NR_semget   221
#define TARGET_NETBSD_NR_semop   222
#define TARGET_NETBSD_NR_semconfig   223
#define TARGET_NETBSD_NR_compat_14_msgctl  224
#define TARGET_NETBSD_NR_msgget   225
#define TARGET_NETBSD_NR_msgsnd   226
#define TARGET_NETBSD_NR_msgrcv   227
#define TARGET_NETBSD_NR_shmat   228
#define TARGET_NETBSD_NR_compat_14_shmctl  229
#define TARGET_NETBSD_NR_shmdt   230
#define TARGET_NETBSD_NR_shmget   231
#define TARGET_NETBSD_NR_clock_gettime   232
#define TARGET_NETBSD_NR_clock_settime   233
#define TARGET_NETBSD_NR_clock_getres   234
#define TARGET_NETBSD_NR_timer_create   235
#define TARGET_NETBSD_NR_timer_delete   236
#define TARGET_NETBSD_NR_timer_settime   237
#define TARGET_NETBSD_NR_timer_gettime   238
#define TARGET_NETBSD_NR_timer_getoverrun  239
#define TARGET_NETBSD_NR_nanosleep  240
#define TARGET_NETBSD_NR_fdatasync   241
#define TARGET_NETBSD_NR_mlockall    242
#define TARGET_NETBSD_NR_munlockall  243
#define TARGET_NETBSD_NR___sigtimedwait   244
```c
#define TARGET_NETBSD_NR_modctl 246
#define TARGET_NETBSD_NR_ksem_init 247
#define TARGET_NETBSD_NR_ksem_open 248
#define TARGET_NETBSD_NR_ksem_unlink 249
#define TARGET_NETBSD_NR_ksem_close 250
#define TARGET_NETBSD_NR_ksem_post 251
#define TARGET_NETBSD_NR_ksem_wait 252
#define TARGET_NETBSD_NR_ksem_trywait 253
#define TARGET_NETBSD_NR_ksem_getvalue 254
#define TARGET_NETBSD_NR_ksem_destroy 255
#define TARGET_NETBSD_NR_mq_open 257
#define TARGET_NETBSD_NR_mq_close 258
#define TARGET_NETBSD_NR_mq_unlink 259
#define TARGET_NETBSD_NR_mq_getattr 260
#define TARGET_NETBSD_NR_mq_setattr 261
#define TARGET_NETBSD_NR_mq_notify 262
#define TARGET_NETBSD_NR_mq_send 263
#define TARGET_NETBSD_NR_mq_receive 264
#define TARGET_NETBSD_NR_mq_timedsend 265
#define TARGET_NETBSD_NR_mq_timedreceive 266
#define TARGET_NETBSD_NR___posix_rename 270
#define TARGET_NETBSD_NR_swapctl 271
#define TARGET_NETBSD_NR_compat_30_getdents 272
#define TARGET_NETBSD_NR_minherit 273
#define TARGET_NETBSD_NR_lchmod 274
#define TARGET_NETBSD_NR_lchown 275
#define TARGET_NETBSD_NR_lutimes 276
#define TARGET_NETBSD_NR___msync13 277
#define TARGET_NETBSD_NR_compat_30___stat13 278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___posix Rename 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_fstat 299
# define TARGET_NETBSD_NR_compat_20_fstatfs 300
# define TARGET_NETBSD_NR_semctl 301
# define TARGET_NETBSD_NR_msgctl 302
# define TARGET_NETBSD_NR_shmctl 303
# define TARGET_NETBSD_NR_lchflags 304
# define TARGET_NETBSD_NR_issetugid 305
# define TARGET_NETBSD_NR_utrace 306
# define TARGET_NETBSD_NR_getcontext 307
# define TARGET_NETBSD_NR_setcontext 308
# define TARGET_NETBSD_NR_lwp_create 309
# define TARGET_NETBSD_NR_lwp_exit 310
# define TARGET_NETBSD_NR_lwp_self 311
# define TARGET_NETBSD_NR_lwp_wait 312
# define TARGET_NETBSD_NR_lwp_suspend 313
# define TARGET_NETBSD_NR_lwp_continue 314
# define TARGET_NETBSD_NR_lwp_wakeup 315
# define TARGET_NETBSD_NR_lwp_getprivate 316
# define TARGET_NETBSD_NR_lwp_setprivate 317
# define TARGET_NETBSD_NR_lwp_kill 318
# define TARGET_NETBSD_NR_lwp_detach 319
# define TARGET_NETBSD_NR_lwp_park 320
# define TARGET_NETBSD_NR_lwp_unpark 321
# define TARGET_NETBSD_NR_lwp_unpark_all 322
# define TARGET_NETBSD_NR_lwp_setname 323
# define TARGET_NETBSD_NR_lwp_getname 324
# define TARGET_NETBSD_NR_lwpCtl 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___sigactionSigtramp 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_setxattr 375
#define TARGET_NETBSD_NR_lsetxattr 376
#define TARGET_NETBSD_NR_fsetxattr 377
#define TARGET_NETBSD_NR_getxattr 378
#define TARGET_NETBSD_NR_lgetxattr 379
#define TARGET_NETBSD_NR_fgetxattr 380
#define TARGET_NETBSD_NR_listxattr 381
#define TARGET_NETBSD_NR_llistxattr 382
#define TARGET_NETBSD_NR_flistxattr 383
#define TARGET_NETBSD_NR_removexattr 384
#define TARGET_NETBSD_NR_lremovexattr 385
#define TARGET_NETBSD_NR_fremovexattr 386
#define TARGET_NETBSD_NR___stat30 387
#define TARGET_NETBSD_NR___fstat30 388
#define TARGET_NETBSD_NR___lstat30 389
#define TARGET_NETBSD_NR___getdents30 390
#define TARGET_NETBSD_NR___ntp_gettime30 391
#define TARGET_NETBSD_NR___socket30 392
#define TARGET_NETBSD_NR___getfh30 393
#define TARGET_NETBSD_NR___fhopen40 394
#define TARGET_NETBSD_NR___fhstatvfs140 395
#define TARGET_NETBSD_NR___fhstat40 396
#define TARGET_NETBSD_NR_aio_cancel 397
#define TARGET_NETBSD_NR_aio_error 398
#define TARGET_NETBSD_NR_aio_fsync 399
#define TARGET_NETBSD_NR_aio_read 400
#define TARGET_NETBSD_NR_aio_return 401
#define TARGET_NETBSD_NR_aio_suspend 402
#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
/
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 *
 * @(#)mman.h 8.2 (Berkeley) 1/9/95
 */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 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)
endif

export TOP

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
`````
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# *
# * Contributors:
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# ****************************************************************************/

ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDLFLAGS=
ASFLAGS= -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I -I./include/x86emu \ -I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \ -I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \ -ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@  $^

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $^
$(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean
# ****************************************************************************
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#!/bin/bash
#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

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..."

SPATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

Index: debug.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
   if (DEBUG_TRACE()) {
-     x86emu_dump_regs();
+     if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+       x86emu_dump_xregs();
+   } else {
+     x86emu_dump_regs();
+   }
   }

   if (DEBUG_DECODE() &amp;&amp; ! DEBUG_DECODE_NOPRINT()) {
       printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i &lt; 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.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
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 ");
      } else 
        DECODE_CLEAR_SEGOVR();
      END_OF_INSTR();
    }
    #****************************************************************************
    // REMARKS:
    // Handles opcode 0x0f,0xC8-0xCF
    #**************************************************************************/
    s32 x86emu_bswap(s32 reg)
    {
      // perform the byte swap
      s32 temp = reg;
      reg = (temp & 0xFF000000) >> 24;
      reg |= (temp & 0xFF0000) >> 8;
      reg |= (temp & 0xFF00) << 8;
      reg |= (temp & 0xFF) << 24;
      return reg;
    }
    void x86emuOp2_bswap(u8 op2)
    {
      /* byte swap 32 bit register */
      START_OF_INSTR();
      DECODE_PRINTF("BSWAP\t");
      switch (op2) {
        case 0xc8:
          DECODE_PRINTF("EAX\n");
          M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
          break;
        case 0xc9:
          DECODE_PRINTF("ECX\n");
          M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
          break;
        case 0xca:
          DECODE_PRINTF("EDX\n");
          M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
          break;
        case 0xcb:
          DECODE_PRINTF("EBX\n");
M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
break;
case 0xcc:
  DECODE_PRINTF("ESP\n");
  M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
  break;
case 0xcd:
  DECODE_PRINTF("EBP\n");
  M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
  break;
case 0xce:
  DECODE_PRINTF("ESI\n");
  M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
  break;
case 0xcf:
  DECODE_PRINTF("EDI\n");
  M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
  break;
}
TRACE_AND_STEP();
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_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.c7 Sep 2007 10:01:21 -0000
+++ ops.c20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    imm = (s8)fetch byte_imm();
    DECODE_PRINTF2("PUSH\t%d", imm);
    TRACE_AND_STEP();
-    push_word(imm);
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
++    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        push_long(imm);
    } else {
        push_word(imm);
++    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
    target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
        M.x86.R_IP = target;
++    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
+        /* move them until (E)CX is ZERO. */
-        /* move them until CX is ZERO. */
        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
if (M.x86.intr & INTR_HALTED)
    break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
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. */
+        /* 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--) {
@@ -2574,6 +2586,8 @@
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
    while (count--) {
@@ -2574,6 +2586,8 @@
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
    while (count--) {
    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_32BIT_REP)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ((M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0)) break;
    if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        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_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ((M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0)) break;
    if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;

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+ if (M.x86.intr & INTR_HALT)
+ break;

M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        }
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
    } 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;
+ 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;
+ break;
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        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. */
+            /* 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);
+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_HALTED)
+            break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2817,11 +2850,16 @@
in = 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 {
    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;
    }
    while (count--) {
        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();
}

inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    while (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.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.intr & INTR_HALTED)
      break;
    else
      M.x86.R_CX -= 1;
  }
  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. */
       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
           val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
           cmp_long(M.x86.R_EAX, val);
         } else if (M.x86.intr & INTR_HALTED)
           break;
        } 
        M.x86.R_CX -= 1;
        if (M.x86.intr & INTR_HALTED)
          break;
      } 
      M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
      /* REPNE */
while ((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
    } else {
        M.x86.R_CX -= 1;
        if (M.x86.intr & INTR_HALTED)
            break;  /* zero flag set means equal */
    }
}
M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
    break;  /* zero flag set means equal */
else {
    M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break;  /* zero flag set means equal */
   } else {
    DECODE_PRINTF("RET\n");
    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();

    RET Trường(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();
}

DECODE_PRINTF("RETF\n");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRAЕE_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);
TRAЕE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4020,8 +4082,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
      M.x86.R_IP = ip;
      DECODE_CLEAR_SEGOVR();
      END_OF_INSTR();
@@ -4041,8 +4106,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF) /* (E)CX != 0 and ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
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) {
+        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 +4433,8 @@
    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
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000
@@ -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 = (s64)(s32)d * (s64)(s32)s;
    *
    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
    @ @ -2013,7 +2013,7 @@
    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;
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
    -    /* in until CX is ZERO. */
    -    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
    +    /* in until (E)CX is ZERO. */
    +    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
    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;
    }
    } else {
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    @ @ -2355,15 +2354,15 @@
    }
    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	1.1
+++ sys.c	7 Sep 2007 10:03:13 -0000	1.2
@@ -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("inb %#04x \n", addr);
-    return 0;
+    return 0;
 }
DB(if (DEBUG_IO_TRACE()))
printk("inl %#04x \n", addr);
return inl(addr);
+return 0;
}

/***************************************************************
@@ -264,7 +259,6 @@

{ DB(if (DEBUG_IO_TRACE()))
printk("outb %#02x -> %#04x \n", val, addr);
-outb(val, addr);
return;
}

@@ -279,7 +273,6 @@

{ DB(if (DEBUG_IO_TRACE()))
printk("outw %#04x -> %#04x \n", val, addr);
-outw(val, addr);
return;
}

@@ -295,7 +288,6 @@

{ DB(if (DEBUG_IO_TRACE()))
printk("outl %#08x -> %#04x \n", val, addr);
-outl(val, addr);
return;
}

@@ -405,6 +397,6 @@

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
 M.mem_size = size;
}

Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h7 Sep 2007 10:01:21 -0000
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -0000
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/
/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
#define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
#define DEBUG_SYSINT()        0
#define DEBUG_TRACECALL()     0
#define DEBUG_TRACECALLREGS() 0
+#define DEBUG_TRACEJMP()       0
+#define DEBUG_TRACEJMPREGS()   0
#define DEBUG_SYS()           0
#define DEBUG_MEM_TRACE()     0
#define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
    x86emu_dump_regs();                                     \
    if (DEBUG_TRACECALL())                                     	\    printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+    if (DEBUG_TRACEJMPREGS()) \
+       x86emu_dump_regs(); \
+       if (DEBUG_TRACEJMP()) \
+          printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
+    if (DEBUG_TRACECALLREGS())
+       printk("%04x:%04x: %s\n",n,u,v,n);
+     if (DEBUG_TRACEJMPREGS())
+        x86emu_dump_regs();
+    if (DEBUG_TRACECALL())
+       printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+    if (DEBUG_TRACECALLREGS())
+       printk("%04x:%04x: %s\n",u,v,s,w,x);
+     if (DEBUG_TRACEJMPREGS())
+        x86emu_dump_regs();
+     if (DEBUG_TRACEJMP())
+        printk("%04x:%04x: %s\n",n,u,v,n);
     if (DEBUG_TRACEJMPREGS())
   #else
     # define CALL_TRACE(u,v,w,x,s)
-    # define RETURN_TRACE(n,u,v)
+    # define RETURN_TRACE(u,v,w,x,s)
+   # define JMP_TRACE(u,v,w,x,s)
#endif
#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 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/regs.h Jan 2008 13:46:40 -000001.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA  0x00000200
#define SYSMODE_PREFIX_ADDR  0x00000400
+ /* phueper: for REP(E|NE) Instructions, we need to decide whether it should be using */
+ /* the 32bit ECX register as or the 16bit CX register as count register */
+#define SYSMODE_32BIT_REP       0x00000800
+#define SYSMODE_INTR_PENDING    0x10000000
+#define SYSMODE_EXTRN_INTR      0x20000000
+#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
 SYSMODE_SEGOVR_GS | "
 SYSMODE_SEGOVR_SS | "
 SYSMODE_PREFIX_DATA   | "
- SYSMODE_PREFIX_ADDR)
+ SYSMODE_PREFIX_ADDR  |
+ SYSMODE_32BIT_REP)
#endif

#define INTR_SYNCH           0x1
#define INTR_ASYNCH          0x2
@ @ -250,7 +253,8 @ @ */
 u32                  mode;
 volatile int        intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#endif DEBUG
-int check;
+ int check;
 u16 saved_ip;
 u16 saved_cs;
 int enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
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 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/x86emu.h Oct 2007 08:42:15 -00001.3
@ -47,6 +47,7 @@
#define printk(x...) printk(BIOS_DEBUG, x)
#endif

@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODENOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@ -200,5 +194,4 @@
#ifdef __cplusplus
}                       /* End of “C” linkage for C++ */
#endif
-#endif /* __X86EMU_X86EMU_H */
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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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.

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

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
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These requirements apply to the modified work as a whole. If 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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1.296 readline 6.3

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1.298 require.js 2.1.6

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I would like to thank the following people (in alphabetical order):

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If I've missed anyone, it's due to oversight. Drop me a line and I'll rectify the situation as quickly as possible.

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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.

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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

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1.306 screen 4.3.1 :r0

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Version 3, 29 June 2007

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1.324 strcasecmp.c 1.4

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1.335 strtok.c 1.5
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/*

*/
1.336 strtol.c 1.10
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1.339 struct.h 1.1.1.2

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 *
 *(*#)struct.h8.1 (Berkeley) 6/2/93
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Ackeret, Matt
Adler, Mark
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Anderson, Jamie
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Irrgang, Eric
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Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
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KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
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Scott, Dougal
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Simon, Thor Lancelot
Slemko, Marc
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Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Chernoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
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Marchal, Frederic
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Nikoli, Miroslav
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1.341 syslog-ng 3.6.2

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

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FAQ:
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The questions and answers below try to summarize the intentions behind this licensing scheme.

Q: Is it possible to create derived works of syslog-ng under the GPL/LGPL licenses?

A: Yes, that's exactly the point of open source. Works derived from the plugins will have to use the GPL license, but you can choose to use LGPL for them as well.

Q: Do I need to sign a Contributory License Agreement in order for my contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the syslog-ng core but not derived works of other plugins. Thus, non-free plugins are possible, provided they do not link to any of the GPLd plugins explicitly and the only connection between two plugins is via the syslog-ng core.

Q: Who is permitted to create non-free plugins for syslog-ng? Is it just BalaBit (the current copyright holder as of the initial 3.2 release)?

A: No, everyone including BalaBit.
The original source can always be found at:
http://www.balabit.hu/downloads/files/syslog-ng

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/* A Bison parser, made by GNU Bison 3.0.2. */

/* Bison implementation for Yacc-like parsers in C


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/* As a special exception, you may create a larger work that contains part or all of the Bison parser skeleton and distribute that work under terms of your choice, so long as that work isn't itself a parser generator using the skeleton or a modified version thereof as a parser skeleton. Alternatively, if you modify or redistribute the parser skeleton itself, you may (at your option) remove this special exception, which will cause the skeleton and the resulting
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/* C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser. */

/* All symbols defined below should begin with yy or YY, to avoid infringing on user name space. This should be done even for local variables, as they might otherwise be expanded by user macros. There are some unavoidable exceptions within include files to define necessary library symbols; they are noted "INFRINGES ON USER NAME SPACE" below. */

/* Identify Bison output. */
#define YYBISON 1

/* Bison version. */
#define YYBISON_VERSION "3.0.2"

/* Skeleton name. */
#define YYSKELETON_NAME "yacc.c"

/* Pure parsers. */
#define YYPURE 1

/* Push parsers. */
#define YYPUSH 0

/* Pull parsers. */
#define YYPULL 1

/* Substitute the variable and function names. */
#define yyparse rewrite_expr_parse
#define yylex rewrite_expr_lex
#define yynerror rewrite_expr_error
#define yydebug rewrite_expr_debug
#define yynerrs rewrite_expr_nerrs

/* Copy the first part of user declarations. */
#line 73 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:339 */

# ifndef YY_NULLPTR
/* Enabling verbose error messages. */
#ifdef YYERROR_VERBOSE
#define YYERROR_VERBOSE 1
#else
#define YYERROR_VERBOSE 1
#endif

/* In a future release of Bison, this section will be replaced
by #include "y.tab.h". */
#ifndef YY_REWRITE_EXPR_LIB_REWRITE_REWRITE_EXPR_GRAMMAR_H_INCLUDED
#define YY_REWRITE_EXPR_LIB_REWRITE_REWRITE_EXPR_GRAMMAR_H_INCLUDED
/* Debug traces. */
#ifndef YYDEBUG
#define YYDEBUG 0
#endif
#if YYDEBUG
extern int rewrite_expr_debug;
#endif
/* "%code requires" blocks. */
#line 25 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:355 */
#include "rewrite/rewrite-expr-parser.h"

#line 109 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:355 */
/* Token type. */
#ifndef YYTOKENTYPE
#define YYTOKENTYPE
enum yytokentype
{
   LL_CONTEXT_ROOT = 1,
   LL_CONTEXT_DESTINATION = 2,
   LL_CONTEXT_SOURCE = 3,
   LL_CONTEXT_PARSER = 4,
   LL_CONTEXT_REWRITE = 5,
   LL_CONTEXT_FILTER = 6,
   LL_CONTEXT_LOG = 7,
   LL_CONTEXT_BLOCK_DEF = 8,
LL_CONTEXT_BLOCK_REF = 9,
LL_CONTEXT_BLOCK_CONTENT = 10,
LL_CONTEXT_BLOCK_ARG = 11,
LL_CONTEXT_PRAGMA = 12,
LL_CONTEXT_FORMAT = 13,
LL_CONTEXT_TEMPLATE(Func = 14,
LL_CONTEXT_INNER_DEST = 15,
LL_CONTEXT_INNER_SRC = 16,
LL_CONTEXT_CLIENT_PROTO = 17,
LL_CONTEXT_SERVER_PROTO = 18,
KW_SOURCE = 10000,
KW_FILTER = 10001,
KW_PARSER = 10002,
KW_DESTINATION = 10003,
KW_LOG = 10004,
KW_OPTIONS = 10005,
KW_INCLUDE = 10006,
KW_BLOCK = 10007,
KW_JUNCTION = 10008,
KW_CHANNEL = 10009,
KW_INTERNAL = 10010,
KW_FILE = 10011,
KW_SQL = 10030,
KW_TYPE = 10031,
KW_COLUMNS = 10032,
KW_INDEXES = 10033,
KW_VALUES = 10034,
KW_PASSWORD = 10035,
KW_DATABASE = 10036,
KW_USERNAME = 10037,
KW_TABLE = 10038,
KW_ENCODING = 10039,
KW_SESSION_STATEMENTS = 10040,
KW_DELIMITERS = 10050,
KW_QUOTES = 10051,
KW_QUOTE_PAIRS = 10052,
KW_NULL = 10053,
KW_SYSLOG = 10060,
KW_MARK_FREQ = 10071,
KW_STATS_FREQ = 10072,
KW_STATS_LEVEL = 10073,
KW_STATS_LIFETIME = 10074,
KW_FLUSH_LINES = 10075,
KW_SUPPRESS = 10076,
KW_FLUSH_TIMEOUT = 10077,
KW_LOG_MSG_SIZE = 10078,
KW_FILE_TEMPLATE = 10079,
KW_PROTO_TEMPLATE = 10080,
KW_MARK_MODE = 10081,
KW_CHAIN_HOSTNAMES = 10090,
KW_NORMALIZE_HOSTNAMES = 10091,
KW_KEEP_HOSTNAME = 10092,
KW_CHECK_HOSTNAME = 10093,
KW_BAD_HOSTNAME = 10094,
KW_KEEP_TIMESTAMP = 10100,
KW_USE_DNS = 10110,
KW_USE_FQDN = 10111,
KW_CUSTOM_DOMAIN = 10112,
KW_DNS_CACHE = 10120,
KW_DNS_CACHE_SIZE = 10121,
KW_DNS_CACHE_EXPIRE = 10130,
KW_DNS_CACHE_EXPIRE_FAILED = 10131,
KW_DNS_CACHE_HOSTS = 10132,
KW_PERSIST_ONLY = 10140,
KW_USE_RCPTID = 10141,
KW_TZ_CONVERT = 10150,
KW_TS_FORMAT = 10151,
KW_FRAC_DIGITS = 10152,
KW_LOG_FIFO_SIZE = 10160,
KW_LOG_FETCH_LIMIT = 10162,
KW_LOG_IW_SIZE = 10163,
KW_LOG_PREFIX = 10164,
KW_PROGRAM_OVERRIDE = 10165,
KW_HOST_OVERRIDE = 10166,
KW_THROTTLE = 10170,
KW_THREADED = 10171,
KW_FLAGS = 10190,
KW_PAD_SIZE = 10200,
KW_TIME_ZONE = 10201,
KW_RECV_TIME_ZONE = 10202,
KW_SEND_TIME_ZONE = 10203,
KW_LOCAL_TIME_ZONE = 10204,
KW_FORMAT = 10205,
KW_TIME_REOPEN = 10210,
KW_TIME_REAP = 10211,
KW_TIME_SLEEP = 10212,
KW_TMPL_ESCAPE = 10220,
KW_OPTIONAL = 10230,
KW_CREATE_DIRS = 10240,
KW_OWNER = 10250,
KW_GROUP = 10251,
KW_PERM = 10252,
KW_DIR_OWNER = 10260,
KW_DIR_GROUP = 10261,
KW_DIR_PERM = 10262,
KW_TEMPLATE = 10270,
KW_TEMPLATE_ESCAPE = 10271,
KW_DEFAULT_FACILITY = 10300,
KW_DEFAULT_LEVEL = 10301,
KW_PORT = 10323,
KW_USE_TIME_RECV = 10340,
KW_FACILITY = 10350,
KW_LEVEL = 10351,
KW_HOST = 10352,
KW_MATCH = 10353,
KW_MESSAGE = 10354,
KW_NETMASK = 10355,
KW_TAGS = 10356,
KW_VALUE = 10361,
KW_REWRITE = 10370,
KW_SET = 10371,
KW_SUBST = 10372,
KW_YES = 10380,
KW_NO = 10381,
KW_IFDEF = 10410,
KW_ENDIF = 10411,
LL_DOTDOT = 10420,
LL_IDENTIFIER = 10421,
LL_NUMBER = 10422,
LL_FLOAT = 10423,
LL_STRING = 10424,
LL_TOKEN = 10425,
LL_BLOCK = 10426,
LL_PRAGMA = 10427,
LL_EOL = 10428,
LL_ERROR = 10429,
KW_VALUE_PAIRS = 10500,
KW_SELECT = 10501,
KW_EXCLUDE = 10502,
KW_PAIR = 10503,
KW_KEY = 10504,
KW_SCOPE = 10505,
KW_SHIFT = 10506,
KW_REKEY = 10507,
KW_ADD_PREFIX = 10508,
KW_REPLACE_PREFIX = 10509,
KW_ON_ERROR = 10510,
KW_RETRIES = 10511,
KW_CONDITION = 10513,
KW_SET_TAG = 10514,
KW_CLEAR_TAG = 10515,
KW_GROUP_SET = 10516
};
#endif
/ * Tokens. */
#define LL_CONTEXT_ROOT 1
#define LL_CONTEXT_DESTINATION 2
#define LL_CONTEXT_SOURCE 3
#define LL_CONTEXT_PARSER 4
#define LL_CONTEXT_REWRITE 5
#define LL_CONTEXT_FILTER 6
#define LL_CONTEXT_LOG 7
#define LL_CONTEXT_BLOCK_DEF 8
#define LL_CONTEXT_BLOCK_REF 9
#define LL_CONTEXT_BLOCK_CONTENT 10
#define LL_CONTEXT_BLOCK_ARG 11
#define LL_CONTEXT_PRAGMA 12
#define LL_CONTEXT_FORMAT 13
#define LL_CONTEXT TEMPLATE_FUNC 14
#define LL_CONTEXT INNER_DEST 15
#define LL_CONTEXT INNER_SRC 16
#define LL_CONTEXT_CLIENT_PROTO 17
#define LL_CONTEXT SERVER_PROTO 18
#define KW SOURCE 10000
#define KW FILTER 10001
#define KW_PARSER 10002
#define KW DESTINATION 10003
#define KW LOG 10004
#define KW OPTIONS 10005
#define KW INCLUDE 10006
#define KW BLOCK 10007
#define KW JUNCTION 10008
#define KW CHANNEL 10009
#define KW INTERNAL 10010
#define KW FILE 10011
#define KW SQL 10030
#define KW TYPE 10031
#define KW COLUMNS 10032
#define KW INDEXES 10033
#define KW VALUES 10034
#define KW PASSWORD 10035
#define KW DATABASE 10036
#define KW USERNAME 10037
#define KW TABLE 10038
#define KW_ENCODING 10039
#define KW SESSION STATEMENTS 10040
#define KW_DELIMITERS 10050
#define KW_QUOTES 10051
#define KW_QUOTE_PAIRS 10052
#define KW_NULL 10053
#define KW_SYSLOG 10060
#define KW_MARK_FREQ 10071
#define KW_STATS_FREQ 10072
#define KW_STATS_LEVEL 10073
#define KW_STATS_LIFETIME 10074
#define KW_FLUSH_LINES 10075
#define KW_SUPPRESS 10076
#define KW_FLUSH_TIMEOUT 10077
#define KW_LOG_MSG_SIZE 10078
#define KW_FILE_TEMPLATE 10079
#define KW_PROTO_TEMPLATE 10080
#define KW_MARK_MODE 10081
#define KW_CHAIN_HOSTNAMES 10090
#define KW_NORMALIZE_HOSTNAMES 10091
#define KW_KEEP_HOSTNAME 10092
#define KW_CHECK_HOSTNAME 10093
#define KW_BAD_HOSTNAME 10094
#define KW_KEEP_TIMESTAMP 10100
#define KW_USE_DNS 10110
#define KW_USE_FQDN 10111
#define KW_CUSTOM_DOMAIN 10112
#define KW_DNS_CACHE 10120
#define KW_DNS_CACHE_SIZE 10121
#define KW_DNS_CACHE_EXPIRE 10130
#define KW_DNS_CACHE_EXPIRE_FAILED 10131
#define KW_DNS_CACHE_HOSTS 10132
#define KW_PERSIST_ONLY 10140
#define KW_USE_RCPTID 10141
#define KW_TZ_CONVERT 10150
#define KW_TS_FORMAT 10151
#define KW_FRAC_DIGITS 10152
#define KW_LOG_FIFO_SIZE 10160
#define KW_LOG_FETCH_LIMIT 10162
#define KW_LOG_IW_SIZE 10163
#define KW_LOG_PREFIX 10164
#define KW_PROGRAM_OVERRIDE 10165
#define KW_HOST_OVERRIDE 10166
#define KW_THROTTLE 10170
#define KW_THREADED 10171
#define KW_FLAGS 10190
#define KW_PAD_SIZE 10200
#define KW_TIME_ZONE 10201
#define KW_RECV_TIME_ZONE 10202
#define KW_SEND_TIME_ZONE 10203
#define KW_LOCAL_TIME_ZONE 10204
#define KW_FORMAT 10205
#define KW_TIME_REOPEN 10210
#define KW_TIME_REAP 10211
#define KW_TIME_SLEEP 10212
#define KW_TMPL_ESCAPE 10220
#define KW_OPTIONAL 10230
#define KW_CREATE_DIRS 10240
#define KW_OWNER 10250
#define KW_GROUP 10251
#define KW_PERM 10252
#define KW_DIR.Owner 10260
#define KW_DIR_GROUP 10261
#define KW_DIR_PERM 10262
#define KW_TEMPLATE 10270
#define KW_TEMPLATE_ESCAPE 10271
#define KW_DEFAULT_FACILITY 10300
#define KW_DEFAULT_LEVEL 10301
#define KW_PORT 10323
#define KW_USE_TIME_RECVD 10340
#define KW_FACILITY 10350
#define KW_LEVEL 10351
#define KW_HOST 10352
#define KW_MATCH 10353
#define KW_MESSAGE 10354
#define KW_NETMASK 10355
#define KW_TAGS 10356
#define KW_VALUE 10361
#define KW_REWRITE 10370
#define KW_SET 10371
#define KW_SUBST 10372
#define KW_YES 10380
#define KW_NO 10381
#define KW_IFDEF 10410
#define KW_ENDIF 10411
#define LL_DOTDOT 10420
#define LL_IDENTIFIER 10421
#define LL_NUMBER 10422
#define LL_FLOAT 10423
#define LL_STRING 10424
#define LL_TOKEN 10425
#define LL_BLOCK 10426
#define LL_PRAGMA 10427
#define LL_EOL 10428
#define LL_ERROR 10429
#define KW_VALUE_PAIRS 10500
#define KW_SELECT 10501
#define KW_EXCLUDE 10502
#define KW_PAIR 10503
#define KW_KEY 10504
#define KW_SCOPE 10505
#define KW_SHIFT 10506
#define KW_REKEY 10507
#define KW_ADD_PREFIX 10508
#define KW_REPLACE_PREFIX 10509
#define KW_ON_ERROR 10510
#define KW_RETRIES 10511
#define KW_CONDITION 10513
#define KW_SET_TAG 10514
#define KW_CLEAR_TAG 10515
#define KW_GROUP_SET 10516

/* Value type. */

/* Location type. */
#if ! defined YYLTYPE && ! defined YYLTYPE_IS_DECLARED
typedef struct YYLTYPE YYLTYPE;
struct YYLTYPE
{
  int first_line;
  int first_column;
  int last_line;
  int last_column;
};
#define YYLTYPE_IS_DECLARED 1
#define YYLTYPE_IS_TRIVIAL 1
#endif

int rewrite_expr_parse (CfgLexer *lexer, LogExprNode **result, gpointer arg);

#endif /* !YY_REWRITE_EXPR_LIB_REWRITE_REWRITE_EXPR_GRAMMAR_H_INCLUDED */

/* Copy the second part of user declarations. */

#line 444 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:358 */
#line 31 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:359 */

#include "rewrite/rewrite-expr-grammar.h"
#include "rewrite/rewrite-set-tag.h"
#include "rewrite/rewrite-set.h"
#include "rewrite/rewrite-subst.h"
#include "rewrite/rewrite-groupset.h"
#include "filter/filter-expr.h"
#include "filter/filter-expr-parser.h"
#include "cfg-grammar.h"
#include "syslog-names.h"
#include "plugin.h"
#include <string.h>

LogRewrite *last_rewrite;

#define YYLLOC_DEFAULT(Current, Rhs, N)                                
  do {                                                                  
    if (N)                                                             
      {                                                               
        (Current).level = YYRHSLOC(Rhs, 1).level;                       
        (Current).first_line = YYRHSLOC (Rhs, 1).first_line;           
        (Current).first_column = YYRHSLOC (Rhs, 1).first_column;       
        (Current).last_line = YYRHSLOC (Rhs, N).last_line;            
        (Current).last_column = YYRHSLOC (Rhs, N).last_column;         
      }                                                                
    else                                                                
      {                                                               
        (Current).level = YYRHSLOC(Rhs, 0).level;                       
        (Current).first_line = (Current).last_line =                 
        YYRHSLOC (Rhs, 0).last_line;                                  
        (Current).first_column = (Current).last_column =             
        YYRHSLOC (Rhs, 0).last_column;                                
      }                                                                
  } while (0)

#define CHECK_ERROR_WITHOUT_MESSAGE(val, token) do {                    
  if (!(val))                                                         
    {                                                                 
      YYERROR;                                                        
    }                                                                
  } while (0)

#define CHECK_ERROR(val, token, errorfmt, ...) do {                     
  if (!(val))                                                         
    {                                                                 
      if (errorfmt)                                                  
        {                                                            
          gchar __buf[256];                                           
          g_snprintf(__buf, sizeof(__buf), errorfmt, ## __VA_ARGS__); 
          yyerror(& (token), lexer, NULL, NULL, __buf);              
        }                                                             
      YYERROR;                                                        
    }                                                                
  } while (0)

#define CHECK_ERROR_GERROR(val, token, error, errorfmt, ...) do {       


if (!(val))
{
    if (errorfmt)
    {
        gchar __buf[256];
        g_snprintf(__buf, sizeof(__buf), errorfmt, __VA_ARGS__, error->message);
        yyerror(& (token), lexer, NULL, NULL, __buf);
    }
    g_clear_error(&error);	
    YYERROR;
}

#define YYMAXDEPTH 20000

#undef short
#define YYTYPE_UINT8
typedef YYTYPE_UINT8 yytype_uint8;

#define YYTYPE_INT8
typedef YYTYPE_INT8 yytype_int8;

#define YYTYPE_UINT16
typedef YYTYPE_UINT16 yytype_uint16;

#define YYTYPE_INT16
typedef YYTYPE_INT16 yytype_int16;

#define YYTYPE_INT16
typedef YYTYPE_INT16 yytype_int16;

#define YYTYPE_INT16
typedef YYTYPE_INT16 yytype_int16;

#define YYTYPE_INT16
typedef YYTYPE_INT16 yytype_int16;

#define YYTYPE_INT16
typedef YYTYPE_INT16 yytype_int16;

#define YYTYPE_INT16
typedef YYTYPE_INT16 yytype_int16;

#define YYTYPE_INT16
typedef YYTYPE_INT16 yytype_int16;
# ifdef __SIZE_TYPE__
# define YYSIZE_T __SIZE_TYPE__
# elif defined size_t
# define YYSIZE_T size_t
# elif ! defined YYSIZE_T
# include <stddef.h> /* INFRINGES ON USER NAME SPACE */
# define YYSIZE_T size_t
# else
# define YYSIZE_T unsigned int
#endif
#endif
#define YYSIZE_MAXIMUM ((YYSIZE_T) -1)
#ifndef YY_
# ifndef YY_ENABLE_NLS && YY_ENABLE_NLS
# if defined YY_ENABLE_NLS
# define YY_(msgid) dgettext ("bison-runtime", Msgid)
# endif
#endif
#endif
#ifndef YY_ATTRIBUTE
# if (defined __GNUC__
    && (2 < __GNUC__ || (__GNUC__ == 2 && 96 <= __GNUC_MINOR__))
    || defined __SUNPRO_C && 0x5110 <= __SUNPRO_C
# define YY_ATTRIBUTE(Spec) __attribute__(Spec)
# else
# define YY_ATTRIBUTE(Spec) /* empty */
#endif
#endif
#ifndef YY_ATTRIBUTE_PURE
# define YY_ATTRIBUTE_PURE YY_ATTRIBUTE ((__pure__))
#endif
#ifndef YY_ATTRIBUTE_UNUSED
# define YY_ATTRIBUTE_UNUSED YY_ATTRIBUTE ((__unused__))
#endif
#ifndef _Noreturn
# if defined _MSC_VER && 1200 <= _MSC_VER
#  define _Noreturn __declspec (noreturn)
#else
#  define _Noreturn /* empty */
#endif
#endif

if defined __SIZE_TYPE__
define YYSIZE_T __SIZE_TYPE__
else defined size_t
define YYSIZE_T size_t
else ! defined YYSIZE_T
#include <stddef.h> /* INFRINGES ON USER NAME SPACE */
define YYSIZE_T size_t
else
define YYSIZE_T unsigned int
endif
endif

define YYSIZE_MAXIMUM ((YYSIZE_T) -1)
ifndef YY_
# ifndef YY_ENABLE_NLS && YY_ENABLE_NLS
# if defined YY_ENABLE_NLS
define YY_(msgid) dgettext ("bison-runtime", Msgid)
#else
endif
endif
ifndef YY_
define YY_(msgid) Msgid
endif
define YY_ATTRIBUTE
#define YY_ATTRIBUTE ((__GNUC__
    && (2 < __GNUC__ || (__GNUC__ == 2 && 96 <= __GNUC_MINOR__))
    || defined __SUNPRO_C && 0x5110 <= __SUNPRO_C
#define YY_ATTRIBUTE(Spec) __attribute__(Spec)
else
define YY_ATTRIBUTE(Spec) /* empty */
endif
endif
ifndef YY_ATTRIBUTE_PURE
define YY_ATTRIBUTE_PURE YY_ATTRIBUTE ((__pure__))
define YY_ATTRIBUTE_PURE YY_ATTRIBUTE ((__pure__))
endif
ifndef YY_ATTRIBUTE_UNUSED
define YY_ATTRIBUTE_UNUSED YY_ATTRIBUTE ((__unused__))
define YY_ATTRIBUTE_UNUSED YY_ATTRIBUTE ((__unused__))
endif
ifndef _Noreturn
# if defined _MSC_VER && 1200 <= _MSC_VER
#define _Noreturn __declspec (noreturn)
#else
#define _Noreturn /* empty */
#endif
#else
#define _Noreturn /* empty */
#endif

if ! defined _Noreturn
#ifdef __STDC_VERSION__ || __STDC_VERSION__ < 201112
# define _Noreturn __declspec (noreturn)
#endif
#define _Noreturn /* empty */
define _Noreturn __declspec (noreturn)
#define _Noreturn __declspec (noreturn)
define _Noreturn __declspec (noreturn)
/* Suppress unused-variable warnings by "using" E. */
#if ! defined lint || defined __GNUC__
#define YYUSE(E) ((void) (E))
#else
#define YYUSE(E) /* empty */
#endif

#if defined __GNUC__ && 407 <= __GNUC__ * 100 + __GNUC_MINOR__
/* Suppress an incorrect diagnostic about yylval being uninitialized. */
#if defined __GNUC__
#define YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN __Pragma ("GCC diagnostic push") __Pragma ("GCC diagnostic ignored "-Wuninitialized")
#define YY_IGNORE_MAYBE_UNINITIALIZED_END __Pragma ("GCC diagnostic pop")
#else
#define YY_INITIAL_VALUE(Value) Value
#endif
#else
#define YY_INITIAL_VALUE(Value) /* Nothing. */
#endif

#if ! defined yyoverflow || YYERRORVERBOSE
/* The parser invokes alloca or malloc; define the necessary symbols. */
#if defined YYSTYPE_USE_ALLOCA
#define YYSTYPE_USE_ALLOCA
#if YYSTYPE_USE_ALLOCA
#define YYSTYPE_ALLOCA __builtin_alloca
#define YYSTYPE_ALLOCA __builtin_superuseralloca
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
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#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v))),
#define YYSTYPE_ALLOCA __builtin_v)));
/* Pacify GCC's 'empty if-body' warning. */
#define YYSTACK_FREE(Ptr) do { /* empty */; } while (0)
#ifndef YYSTACK_ALLOC_MAXIMUM
/* The OS might guarantee only one guard page at the bottom of the stack,
and a page size can be as small as 4096 bytes. So we cannot safely
invoke alloca (N) if N exceeds 4096. Use a slightly smaller number
to allow for a few compiler-allocated temporary stack slots. */
#define YYSTACK_ALLOC_MAXIMUM 4032 /* reasonable circa 2006 */
#else
#define YYSTACK_ALLOC YYMALLOC
#define YYSTACK_FREE YYFREE
#ifndef YYSTACK_ALLOC_MAXIMUM
#define YYSTACK_ALLOC_MAXIMUM YYSIZE_MAXIMUM
#endif
#endif
#else
#define YYSTYPE_ALLOC YYSTACK_ALLOC
#define YYSTYPE_FREE YYSTYPE_FREE
#endif
#else
#define YYSTYPE_ALLOC YYSTACK_ALLOC
#define YYSTYPE_FREE YYSTACK_FREE
#endif

#endif

#define YYSTYPE_ALLOC alloca
#define YYSTYPE_FREE alloca

#ifndef YYSTYPE_ALLOC_MAXIMUM
#define YYSTYPE_ALLOC_MAXIMUM 4032 /* reasonable circa 2006 */
#endif

/* A type that is properly aligned for any stack member. */
union yyalloc
{
  yytype_int16 yyss_alloc;
  YSTYPE yyvs_alloc;
  YYLTYPE yyls_alloc;
};

/* The size of the maximum gap between one aligned stack and the next. */
#define YYSTACK_GAP_MAXIMUM (sizeof (union yyalloc) - 1)

/* The size of an array large to enough to hold all stacks, each with N elements. */
#define YYSTACK_BYTES(N) 
  ((N) * (sizeof (yytype_int16) + sizeof (YSTYPE) + sizeof (YYLTYPE)) 
   + 2 * YYSTACK_GAP_MAXIMUM)

#define YYCOPY_NEEDED 1

/* Relocate STACK from its old location to the new one. The local variables YYSIZE and YystackSIZE give the old and new number of elements in the stack, and YYPTR gives the new location of the stack. Advance YYPTR to a properly aligned location for the next stack. */
#define YYSTACK_RELOCATE(Stack_alloc, Stack) 
  do 
  { 
    YYSIZE_T yynewbytes; 
    YYCOPY (&yyptr->Stack_alloc, Stack, yynsize); 
    Stack = &yyptr->Stack_alloc; 
    yynewbytes = yystacksize * sizeof (*Stack) + YYSTACK_GAP_MAXIMUM; 
    yyprr += yynewbytes / sizeof (*yyptr); 
  } 
  while (0)
#endif

#if defined YYCOPY_NEEDED && YYCOPY_NEEDED
/* Copy COUNT objects from SRC to DST. The source and destination do
not overlap. */
#endif
#if defined __GNUC__ && 1 < __GNUC__
#define YYCOPY (Dst, Src, Count) \
__builtin_memcpy (Dst, Src, (Count) * sizeof (*(Src)))
#else
#define YYCOPY (Dst, Src, Count) \
{ \
YYSIZE_T yyi; \
for (yyi = 0; yyi < (Count); yyi++) \
(Dst)[yyi] = (Src)[yyi]; \
} \
while (0)
#endif
#endif /* !YYCOPY_NEEDED */

/* YYFINAL -- State number of the termination state. */
#define YYFINAL 18
/* YYLAST -- Last index in YYTABLE. */
#define YYLAST 205

/* YYNTOKENS -- Number of terminals. */
#define YYNTOKENS 159
/* YYNNTS -- Number of nonterminals. */
#define YYNNTS 57
/* YYNRULES -- Number of rules. */
#define YYNRULES 110
/* YYNSTATES -- Number of states. */
#define YYNSTATES 232

/* YYTRANSLATE[YYX] -- Symbol number corresponding to YYX as returned by yylex, with out-of-bounds checking. */
#define YYUNDEFTOK 2
#define YYMAXUTOK 10516
#define YYTRANSLATE(YYX) \
((unsigned int) (YYX) <= YYMAXUTOK ? yytranslate[YYX] : YYUNDEFTOK)

/* YYTRANSLATE[TOKEN-NUM] -- Symbol number corresponding to TOKEN-NUM as returned by yylex, without out-of-bounds checking. */
static const YYSTYPE yytranslate[] = 
{
  0,  3,  4,  5,  6,  7,  8,  9, 10, 11,
  12, 13, 14, 15, 16, 17, 18, 19, 20,  2,
  2,  2,  2,  2,  2,  2,  2,  2,  2,  2,
  2,  2,  2,  2,  2,  2,  2,  2,  2,  2,
};
if YYDEBUG
/* YYRLINE[YYN] -- Source line where rule number YYN was defined. */
static const yytype_uint16 yyrline[] =
  {0, 387, 387, 391, 392, 393, 397, 409, 408, 421,
   420, 426, 427, 429, 428, 435, 454, 455, 459, 463,
467, 468, 472, 473, 477, 478, 482, 497, 502,
501, 514, 516, 514, 523, 524, 525, 529, 530, 534,
553, 557, 565, 566, 570, 575, 586, 596, 605,
607, 616, 617, 618, 622, 626, 645, 646, 650,
651, 652, 653, 654, 655, 656, 657, 658, 659, 660,
664, 676, 682, 686, 687, 691, 695, 696, 700,
701, 732, 733, 737, 738, 739, 743, 744, 754, 758,
759, 763, 764, 810, 811, 812, 813, 814, 815, 816,
817, 818, 818, 831, 832, 833, 834, 978, 979, 983,
984
};
#endif
#if YYDEBUG || YYERROR_VERBOSE || 1
/* YYTNAME[SYMBOL-NUM] -- String name of the symbol SYMBOL-NUM.
   First, the terminals, then, starting at YYNTOKENS, nonterminals. */
static const char *const yytname[] =
{
"$end", "error", "$undefined", "LL_CONTEXT_ROOT",
"LL_CONTEXT_DESTINATION", "LL_CONTEXT_SOURCE", "LL_CONTEXT_PARSER",
"LL_CONTEXT_REWRITE", "LL_CONTEXT_FILTER", "LL_CONTEXT_LOG",
"LL_CONTEXT_BLOCK_DEF", "LL_CONTEXT_BLOCK_REF",
"LL_CONTEXT_BLOCK_CONTENT", "LL_CONTEXT_BLOCK_ARG", "LL_CONTEXT_PRAGMA",
"LL_CONTEXT_FORMAT", "LL_CONTEXT_TEMPLATE_FUNC", "LL_CONTEXT_INNER_DEST",
"LL_CONTEXT_INNER_SRC", "LL_CONTEXT_CLIENT_PROTO",
"LL_CONTEXT_SERVER_PROTO", "KW_SOURCE", "KW_FILTER", "KW_PARSER",
"KW_DESTINATION", "KW_LOG", "KW_OPTIONS", "KW_INCLUDE", "KW_BLOCK",
"KW_JUNCTION", "KW_CHANNEL", "KW_INTERNAL", "KW_FILE", "KW_SQL",
"KW_TYPE", "KW_COLUMNS", "KW_INDEXES", "KW_VALUES", "KW_PASSWORD",
"KW_DATABASE", "KW_USERNAME", "KW_TABLE", "KW_ENCODING",
"KW_SESSION_STATEMENTS", "KW_DELIMITERS", "KW_QUOTES", "KWQUOTE_PAIRS",
"KW_NULL", "KW_SYSLOG", "KW_MARK_FREQ", "KW_STATS_FREQ",
"KW_STATS_LEVEL", "KW_STATS_LIFETIME", "KW_FLUSH_LINES", "KW_SUPPRESS",
"KW_FLUSH_TIMEOUT", "KW_LOG_MSG_SIZE", "KW_FILE_TEMPLATE",
"KW_PROTO_TEMPLATE", "KW_MARK_MODE", "KW_CHAIN_HOSTNAMES",
"KW_NORMALIZE_HOSTNAMES", "KW_KEEP_HOSTNAME", "KW_CHECK_HOSTNAME",
"KW_BAD_HOSTNAME", "KW_KEEP_TIMESTAMP", "KW_USE_DNS", "KW_USE_FQDN",
"KW_CUSTOM_DOMAIN", "KW_DNS_CACHE", "KW_DNS_CACHE_SIZE",
"KW_DNS_CACHE_EXPIRE", "KW_DNS_CACHE_EXPIRE_FAILED",
"KW_DNS_CACHE_HOSTS", "KW_PERSIST_ONLY", "KW_USE_RCPTID",
"KW_TZ_CONVERT", "KW_TS_FORMAT", "KW_FRACTIONAL", "KW_LOG_FIFO_SIZE",
"KW_LOG_FETCH_LIMIT", "KW_LOG_IW_SIZE", "KW_LOG_PREFIX",
"KW_PROGRAM_OVERRIDE", "KW_HOST_OVERRIDE", "KW_THROTTLE", "KW_THREADED",
"KW_FLAGS", "KW_PAD_SIZE", "KW_CURRENT_TIME", "KW_RECV_TIME_ZONE",
"KW_SEND_TIME_ZONE", "KW_LOCAL_TIME_ZONE", "KW_FORMAT", "KW_TIME_REOPEN",
"KW_TIME_REAP", "KW_TIME_SLEEP", "KW_TMPL_ESCAPES", "KWOPTIONAL",
"KW_CREATE_DIRS", "KWOWNER", "KWGROUP", "KWPERM", "KWDIR_OWNER",
"KWDIR_GROUP", "KWDIR_PERM", "KW_TEMPLATE", "KW_TEMPLATE_ESCAPE",
"KW_DEFAULT_FACILITY", "KW_DEFAULT_LEVEL", "KW_PORT",
"KW_USE_TIME_RECV", "KW_FACILITY", "KW_LEVEL", "KW_HOST", "KW_MATCH",
"KW_MESSAGE", "KW_NETMASK", "KW_TAGS", "KW_VALUE", "KW_REWRITE",
"KW_SET", "KW_SUBST", "KW_YES", "KW_NO", "KW_IFDEF", "KW_ENDIF",
"LL_DOTDOT", "LL_IDENTIFIER", "LL_NUMBER", "LL_FLOAT", "LL_STRING",
"LL_TOKEN", "LL_BLOCK", "LL_PRAGMA", "LL_EOL", "LL_ERROR",
"KW_VALUE_PAIRS", "KW_SELECT", "KW_EXCLUDE", "KW_PAIR", "KW_KEY",
"KW_SCOPE", "KW_SHIFT", "KW_REKEY", "KW_ADD_PREFIX", "KW_REPLACE_PREFIX",
"KW_ON_ERROR", "KW_RETRIES", "KW_CONDITION", "KW_SET_TAG",
"KW_CLEAR_TAG", "KW_GROUP_SET", "('', '"'), "('', '"'), "('', '"'), "('', '"'), "$accept", "start", "rewrite_expr_list", "rewrite_template_content",
"rewrite_expr", "$@1", "$@2", "$@3", "rewrite_groupset_opts",
"rewrite_groupset_opt", "rewrite_subst_opt", "$@4",
"rewrite_expr_opts", "rewrite_expr_opt", "rewrite_condition_opt", "$@5",
"source_content", "$@6", "$@7", "source_items", "source_item",
"source_plugin", "source_afinter", "source_afinter_params", "$@8",
"source_afinter_options", "source_afinter_option", "filter_content",
"parser_content", "rewrite_content", "dest_content", "$@9", "$@10",
"dest_items", "dest_item", "dest_plugin", "log_items", "log_item",
"log_junction", "log_last_junction", "log_forks", "log_fork",
"log_content", "log_flags", "log_flags_items", "string", "yesno",
"dnsmode", "string_list", "string_list_build", "semicolons",
"source_option", "$@12", "host_resolve_option", "matcher_option",
"matcher_flags", YY_NULLPTR
};
#endif

#if YYPRINT
/* YYTOKNUM[NUM] -- (External) token number corresponding to the
 (internal) symbol number NUM (which must be that of a token). */
static const yytype_uint16 yytoknum[] =
{
  0,  256, 10512,  1,  2,  3,  4,  5,  6,  7,
  8,  9, 10,  11,  12,  13,  14,  15,  16,  17,
  18, 10000, 10001, 10002, 10003, 10004, 10005, 10006, 10007, 10008,
  10009, 10010, 10011, 10030, 10031, 10032, 10033, 10034, 10035, 10036,
  10037, 10038, 10039, 10040, 10050, 10051, 10052, 10053, 10060, 10071,
  10072, 10073, 10074, 10075, 10076, 10077, 10078, 10079, 10080, 10081,
  10090, 10091, 10092, 10093, 10094, 10100, 10110, 10111, 10112, 10120,
  10121, 10130, 10131, 10132, 10140, 10141, 10150, 10151, 10152, 10160,
  10162, 10163, 10164, 10165, 10166, 10170, 10171, 10190, 10200, 10201,
  10202, 10203, 10204, 10205, 10210, 10211, 10212, 10220, 10230, 10240,
  10250, 10251, 10252, 10260, 10261, 10262, 10270, 10271, 10300, 10301,
  10323, 10340, 10350, 10351, 10352, 10353, 10354, 10355, 10356, 10361,
  10370, 10371, 10372, 10380, 10381, 10410, 10411, 10420, 10421, 10422,
  10423, 10442, 10425, 10426, 10427, 10428, 10429, 10500, 10501, 10502,
  10503, 10504, 10505, 10506, 10507, 10508, 10509, 10510, 10511, 10513,
  10514, 10515, 10516,  40,  41, 123, 125,  59,  58

```c
#define YYPACT_NINF -106
#define yynact_value_is_default(Yystate)  
  (!(Yystate) == (-106))
#define YYTABLE_NINF -45
#define yytable_value_is_error(Yytable_value)  
  0
/* YYPACT[STATE-NUM] -- Index in YYTABLE of the portion describing
STATE-NUM. */
static const yytype_int8 yypact[] =
{
    -15, -87, -73, -65, -106, -59, -58, -57,  97,  17,  
     -54,  -54,  17,  -75,  -75,  -75,  -75,  -55,  
      -106,  -106,  -106,  -106,  -106,  -106,  -106,  -6,  -6,  17,  -106,  
};

/* YYDEFACT[STATE-NUM] -- Default reduction number in state STATE-NUM.
   Performed when YYTABLE does not specify something else to do.  Zero
   means the default is an error. */
static const yytype_uint8 yydefact[] =
{
    -8,  -5,  -3,  -17,   -2,   -1,  -12,  -106,  -106,     0,  
     2,  -106,  -106,     4,     5,  -106,     6,  -106,  -106,  
};
```
/* YYPGOTO[NTERM-NUM]. */
static const yytype_int8 yypgoto[] =
{ -106, -106, 49, 16, -106, -106, -106, 61, -106, 
  51, -106, -106, 78, -28, -13, -106, -106, -106, 
  106, 20, -72, 113, -106, 14, -14, -94, -106, -23, 
  50, -4, -106, -106, -106, -106, 47 
};

/* YYDEFGOTO[NTERM-NUM]. */
static const yytype_int16 yydefgoto[] =
{ -1, 8, 9, 30, 10, 64, 43, 47, 66, 67, 
  87, 88, 89, 61, 62, 63, 110, 95, 96, 149, 
  123, 124, 125, 126, 160, 161, 180, 181, 98, 100, 
  105, 102, 103, 152, 135, 136, 137, 53, 54, 11, 
  21, 22, 23, 56, 107, 155, 31, 202, 225, 117, 
  118, 25, 182, 183, 198, 115, 159 
};
/* YYTABLE[YYPACT[STATE-NUM]] -- What to do in state STATE-NUM.  If positive, shift that token.  If negative, reduce the rule whose number is the opposite.  If YYTABLE_NINF, syntax error. */

static const yytype_int16 yytable[] =
{
32, 33, 34, 65, 172, 19, 173, 26, 19, 174,
20, 121, 113, 20, 1, 48, 49, 50, 51, 38,
39, 223, 59, 1, 127, 175, 176, 177, 178, 55,
55, 138, 27, 35, 68, 194, 90, 59, 199, 200,
195, 196, 19, 197, 201, 162, 163, 20, 44, 69,
80, 70, 60, 28, 68, 94, 29, 97, 58, 99,
90, 101, 179, 104, 71, 114, 72, 60, 12, 109,
199, 200, -21, 55, 40, 41, 201, 116, 127, 127,
13, 138, 138, 73, 75, 74, 76, 77, 14, 78,
164, 165, 203, 204, 15, 16, 17, 18, -44, 106,
36, 83, 116, 24, 37, 45, 2, 3, 122, 42,
46, 134, 84, 4, 52, 60, 222, 224, 226, 227,
150, 81, 91, 151, 82, 85, 120, 156, 93, 92,
157, 158, 153, 111, 154, 5, 6, 7, 119, 112,
86, 141, 156, 128, 158, 130, 129, 108, 131, 132,
57, 205, 139, 133, 142, 140, 143, 144, 145, 79,
147, 148, 184, 166, 168, 170, 146, 171, 185, 209,
167, 186, 187, 0, 188, 206, 207, 208, 116, 189,
190, 191, 192, 210, 211, 212, 213, 0, 214, 215,
216, 217, 218, 219, 220, 221, 228, 229, 230, 231,
0, 0, 0, 193, 169
};

static const yytype_int16 yycheck[] =
{
14, 15, 16, 37, 60, 25, 62, 11, 25, 65,
30, 31, 34, 30, 29, 21, 22, 23, 24, 23,
24, 74, 119, 29, 96, 81, 82, 83, 84, 36,
37, 103, 12, 17, 47, 61, 64, 119, 123, 124,
66, 67, 25, 69, 129, 150, 151, 30, 32, 153,
54, 155, 149, 128, 67, 69, 131, 71, 38, 73,
88, 75, 118, 77, 153, 87, 155, 149, 155, 83,
123, 124, 154, 80, 25, 26, 129, 91, 150, 151,
153, 153, 154, 153, 153, 155, 155, 153, 153, 155,
153, 154, 186, 187, 153, 153, 153, 0, 154, 87,
155, 153, 116, 157, 155, 154, 121, 122, 128, 156,
154, 128, 153, 128, 120, 149, 210, 211, 212, 213,
124, 156, 153, 127, 156, 154, 156, 141, 67, 154,
144, 145, 136, 154, 138, 150, 151, 152, 154, 88,
62, 153, 156, 154, 158, 154, 156, 80, 156, 154,
37, 129, 154, 156, 154, 156, 154, 153, 153, 53,
154, 153, 166, 154, 154, 116, 154, 153, 192,
156, 153, 153, -1, 153, 189, 190, 191, 192, 153,
153, 153, 153, 153, 153, 153, 153, -1, 154, 154,
154, 154, 154, 154, 154, 154, 154, 154, 154, 154,
-1, -1, -1, -1, 181, 158
};

/* YYSTOS[STATE-NUM] -- The (internal number of the) accessing
symbol of state STATE-NUM. */
static const yytype_uint8 yystos[] =
{
0,    29,   121,   122,   128,   150,   151,   152,   160,   161,
163,   198,   155,   153,   153,   153,   153,   153,     0,    25,
30,   199,  200,  201,   157,  210,  210,  200,  128,  131,
162,   205,  205,  205,  205,  155,  155,  210,  210,  161,
161,   156,  165,  162,  154,  154,  166,  21,  22,
23,   24,  120,  196,  197,  198,  202,  202,  200,  119,
149,  172,  173,  174,  164,  37,  167,  168,  174,  153,
155,  153,  153,  153,  153,  153,  153,  153,  153,  199,
210,  156,  156,  153,  153,  154,  172,  169,  170,  171,
173,  153,  154,  167,  205,  176,  177,  205,  187,  205,
188,  205,  190,  191,  205,  189,  87,  203,  196,  205,
175,  154,  169,  34,  87,  214,  205,  208,  209,  154,
156,  31,  128,  179,  180,  181,  182,  201,  154,  156,
154,  156,  156,  128,  193,  194,  195,  201,  154,
156,  153,  154,  153,  153,  209,  154,  153,  178,
210,  210,  192,  210,  210,  204,  205,  205,  205,  215,
183,  184,  179,  179,  193,  193,  154,  204,  154,  215,
154,  154,  60,  62,  65,  81,  82,  83,  84,  118,
185,  186,  211,  212,  210,  153,  153,  153,  153,  153,
153,  153,  185,  61,  66,  67,  69,  213,  123,
124,  129,  206,  206,  206,  129,  205,  205,  205,  208,
153,  153,  153,  153,  154,  154,  154,  154,  154,  154,
154,  206,  74,  206,  207,  206,  206,  154,  154,
154,
};

/* YYR1[YYN] -- Symbol number of symbol that rule YYN derives. */
static const yytype_uint8 yyr1[] =
{
0,   159,   160,   161,   161,   161,   162,   164,   163,   165,
163,   163,   166,   163,   163,   167,   167,   168,   168,
169,   169,   171,   170,   170,   172,   172,   173,   173,   175,
174,   177,   178,   176,   179,   179,   179,   180,   180,   181,
182,   184,   183,   185,   185,   186,   187,   188,   189,   191,
192,   190,   193,   193,   193,   194,   195,   196,   196,   197,
197,   197,   197,   197,   197,   197,   197,   197,   197,   197,
198,   199,   200,   200,   201,   201,   202,   202,   203,   203,
204,   205,   205,   206,   206,   206,   207,   207,   208,   209,
209,   210,   210,   211,   211,   211,   211,   211,   211,   211,
211, 212, 211, 213, 213, 213, 213, 214, 214, 215,
215
};
/* YYR2[YYN] -- Number of symbols on the right hand side of rule YYN. */
static const yytype_uint8 yyr2[] =
{
0, 2, 2, 3, 3, 0, 1, 0, 7, 0,
6, 4, 4, 0, 6, 1, 2, 0, 4, 1,
2, 0, 0, 2, 1, 2, 0, 4, 1, 0,
4, 0, 0, 3, 3, 3, 0, 1, 1, 1,
4, 0, 2, 2, 0, 1, 0, 0, 0, 0,
0, 3, 3, 3, 0, 1, 1, 3, 0, 4,
4, 4, 4, 4, 4, 4, 4, 4, 4, 1,
4, 1, 3, 0, 4, 4, 3, 5, 0, 2,
0, 1, 1, 1, 1, 1, 1, 1, 1, 2,
0, 1, 2, 4, 4, 4, 4, 4, 4, 4,
4, 0, 2, 4, 4, 4, 4, 4, 4, 2,
0
};

#define yyerrok
(yyerrstatus = 0)
#define yyclearin
(yychar = YYEMPTY)
#define YYEMPTY
(-2)
#define YYEOF
0
#define YYACCEPT
#define YYABORT
#define YYERROR

goto yyacceptlab
goto yyabortlab
goto yyerrorlab

#define YYRECOVERING() (!!yyerrstatus)
#define YYBACKUP(Token, Value)
\
do
\
if (yychar == YYEMPTY)
\
{
\
yychar = (Token);
\
yylval = (Value);
\
YYPOPSTACK (yylen);
\
yystate = *yyssp;
\
goto yybackup;
\
}
\
else
\
{
\
yyerror (&yylloc, lexer, result, arg, YY_("syntax error: cannot back up")); \
YYERROR;
\

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while (0)

/* Error token number */
#define YYTERROR 1
#define YYERRCODE 256

/* YYLLOC_DEFAULT -- Set CURRENT to span from RHS[1] to RHS[N].
 If N is 0, then set CURRENT to the empty location which ends
 the previous symbol: RHS[0] (always defined). */

#if !YYLLOC_DEFAULT
#define YYLLOC_DEFAULT(Current, Rhs, N) do
if (N) {
  (Current).first_line = YYRHSLOC (Rhs, 1).first_line;
  (Current).first_column = YYRHSLOC (Rhs, 1).first_column;
  (Current).last_line = YYRHSLOC (Rhs, N).last_line;
  (Current).last_column = YYRHSLOC (Rhs, N).last_column;
} else {
  (Current).first_line = (Current).last_line =
    YYRHSLOC (Rhs, 0).last_line;
  (Current).first_column = (Current).last_column =
    YYRHSLOC (Rhs, 0).last_column;
}
while (0)
#endif

#define YYRHSLOC(Rhs, K) ((Rhs)[K])

/* Enable debugging if requested. */
#if YYDEBUG
#if !YYFPRINTF
#include <stdio.h> /* INFRINGES ON USER NAME SPACE */
#define YYFPRINTF fprintf
#endif

#define YYDPRINTF(Args) do {
if (yydebug) YYFPRINTF Args;
} while (0)
#endif

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/* YY_LOCATION_PRINT -- Print the location on the stream.
   This macro was not mandated originally: define only if we know
   we won't break user code: when these are the locations we know. */

#ifndef YY_LOCATION_PRINT
# if defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL
/* Print *YYLOCP on YYO. Private, do not rely on its existence. */

YY_ATTRIBUTE_UNUSED
static unsigned
yy_location_print_ (FILE *yyo, YYLTYPE const * const yylocp)
{
  unsigned res = 0;
  int end_col = 0 != yylocp->last_column ? yylocp->last_column - 1 : 0;
  if (0 <= yylocp->first_line)
  {
    res += YYFPRINTF (yyo, "%d", yylocp->first_line);
    if (0 <= yylocp->first_column)
    {
      res += YYFPRINTF (yyo, ".%d", yylocp->first_column);
    }
  }
  if (0 <= yylocp->last_line)
  {
    if (yylocp->first_line < yylocp->last_line)
    {
      res += YYFPRINTF (yyo, "-%d", yylocp->last_line);
      if (0 <= end_col)
      {
        res += YYFPRINTF (yyo, ".%d", end_col);
      }
    }
    else if (0 <= end_col && yylocp->first_column < end_col)
    {
      res += YYFPRINTF (yyo, "-%d", end_col);
    }
  }
  return res;
}

#define YY_LOCATION_PRINT(File, Loc)          \
  yy_location_print_ (File, &(Loc))

#else
#define YY_LOCATION_PRINT(File, Loc) ((void) 0)
#endif

#define YY_SYMBOL_PRINT(Title, Type, Value, Location)                    \
  do {
    \
# define YY_SYMBOL_PRINT(Title, Type, Value, Location)                    \
  do {

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if (yydebug)  
  
    YYPRINTF (stderr, "%s ", Title);  
    yy_symbol_print (stderr, 
        Type, Value, Location, lexer, result, arg);  
    YYPRINTF (stderr, "\n");  
}  
} while (0)

/*----------------------------------------.  
| Print this symbol's value on YYOUTPUT.  |  
'----------------------------------------*/

static void
yy_symbol_value_print (FILE *yyoutput, int yytype, YYSTYPE const * const yyvaluep, YYLTYPE const * const yylocationp, CfgLexer *lexer, LogExprNode **result, gpointer arg)
{
  FILE *yyo = yyoutput;
  YYUSE (yyo);
  YYUSE (yylocationp);
  YYUSE (lexer);
  YYUSE (result);
  YYUSE (arg);
  if (!yyvaluep)
    return;
  # ifdef YYPRINT
  if (yytype < YYNTOKENS)
    YYPRINT (yyoutput, yytoknum[yytype], *yyvaluep);
  # endif
  YYUSE (yytype);
}

/*--------------------------------.  
| Print this symbol on YYOUTPUT.  |  
'--------------------------------*/

static void
yy_symbol_print (FILE *yyoutput, int yytype, YYSTYPE const * const yyvaluep, YYLTYPE const * const yylocationp, CfgLexer *lexer, LogExprNode **result, gpointer arg)
{
  YYFPRINTF (yyoutput, "%s %s (", 
        yytype < YYNTOKENS ? "token" : "nterm", yytname[yytype]);

  YY_LOCATION_PRINT (yyoutput, *yylocationp);
  YYPRINTF (yyoutput, ", ");
  yy_symbol_value_print (yyoutput, yytype, yyvaluep, yylocationp, lexer, result, arg);

  YYPRINTF (yyoutput, ");
  YYPRINTF (yyoutput, ");
}
static void
yy_stack_print (yytype_int16 *yybottom, yytype_int16 *yytop)
{
    YYPRINTF (stderr, "Stack now");
    for (; yybottom <= yytop; yybottom++)
    {
        int yybot = *yybottom;
        YYPRINTF (stderr, " %d", yybot);
    }
    YYPRINTF (stderr, "\n");
}

#define YY_STACK_PRINT(Bottom, Top) do { { if (yydebug) yy_stack_print ((Bottom), (Top)); } while (0)

static void
yy_reduce_print (yytype_int16 *yyssp, YYSTYPE *yyvsp, YYLTYPE *yylsp, int yyrule, CfgLexer *lexer,
LogExprNode **result, gpointer arg)
{
    unsigned long int yylno = yyrline[yyrule];
    int yynrhs = yyr2[yyrule];
    int yyi;
    YYPRINTF (stderr, "Reducing stack by rule %d (line %lu):\n",
        yyrule - 1, yylno);
    /* The symbols being reduced. */
    for (yyi = 0; yyi < yynrhs; yyi++)
    {
        YYPRINTF (stderr, "$%d = ", yyi + 1);
        yy_symbol_print (stderr,
            yystos[yyssp[yyi + 1 - yynrhs]],
            &(yyvsp[(yyi + 1) - (yynrhs)]) & & (yylsp[yyi + 1 - (yynrhs)]), lexer, result, arg);
YYPRINTF (stderr, "\n");
}
}

#define YY_REDUCE_PRINT(Rule)          
  do {                                    
    if (yydebug)                          
      yy_reduce_print (yyssp, yyvsp, yylsp, Rule, lexer, result, arg);\n    } while (0)

/* Nonzero means print parse trace. It is left uninitialized so that
   multiple parsers can coexist. */
int yydebug;
#else /* !YYDEBUG */
#define YYDPRINTF(Args)
#define YY_SYMBOL_PRINT(Title, Type, Value, Location)
#define YY_STACK_PRINT(Bottom, Top)
#define YY_REDUCE_PRINT(Rule)
#endif /* !YYDEBUG */

/* YYINITDEPTH -- initial size of the parser's stacks. */
#ifndef YYINITDEPTH
#define YYINITDEPTH 200
#endif
/* YYMAXDEPTH -- maximum size the stacks can grow to (effective only
   if the built-in stack extension method is used).

   Do not make this value too large; the results are undefined if
   YYSTACK_ALLOC_MAXIMUM < YYSTACK_BYTES (YYMAXDEPTH)
   evaluated with infinite-precision integer arithmetic. */
#ifndef YYMAXDEPTH
#define YYMAXDEPTH 10000
#endif
#if YYERROR_VERBOSE
#ifndef yystrlen
  if defined __GLIBC__ && defined _STRING_H
#define yystrlen strlen
  else
    /* Return the length of YYSTR. */
    static YYSIZE_T
    yystrlen (const char *yystr)
    {
```
YYSIZE_T yylen;
for (yylen = 0; yystr[yylen]; yylen++)
    continue;
return yylen;
}
#endif
#endif
#endif
#endif

#if !defined yystpcpy
    # if defined __GLIBC__ && defined _STRING_H && defined _GNU_SOURCE
    # define yystpcpy stpcpy
    # else
    /* Copy YYSRC to YYDEST, returning the address of the terminating '0' in
    YYDEST. */
    static char *
    yystpcpy (char *yydest, const char *yysrc)
    {
        char *yyd = yydest;
        const char *yys = yysrc;

        while ((*yyd++ = *yys++) != '\0')
            continue;

        return yyd - 1;
    }
#endif
#endif
#endif

#if !defined yytnamerr
    /* Copy to YYRES the contents of YYSTR after stripping away unnecessary
quotes and backslashes, so that it's suitable for yyerror. The
heuristic is that double-quoting is unnecessary unless the string
contains an apostrophe, a comma, or backslash (other than
backslash-backslash). YYSTR is taken from yytname. If YYRES is
null, do not copy; instead, return the length of what the result
would have been. */
    static YYSIZE_T
    yytnamerr (char *yyres, const char *yysrc)
    {
        if (*yysrc == "")
            {
                YYSIZE_T yyn = 0;
                char const *yyp = yysrc;

                for (;;)
                    switch (*++yyp)
                        {
                            case ":

                            // other cases
                        }
                }
        // other cases
    }
#endif
case '\':
    goto do_not_strip_quotes;

case ',':
    goto do_not_strip_quotes;

case '\':
    if (*++yyp != '\')
        goto do_not_strip_quotes;
    /* Fall through. */
default:
    if (yyres)
        yyres[yyn] = *yyp;
    yyn++;
    break;

case '"':
    if (yyres)
        yyres[yyn] = '\0';
    return yyn;
}
}

do_not_strip_quotes: ;
}

if (! yyres)
    return yystrlen (yystr);

return yystpcpy (yyres, yystr) - yyres;
}

#endif /* YYERROR_VERBOSE */

/* Copy into *YYMSG, which is of size *YYMSG_ALLOC, an error message about the unexpected token YYTOKEN for the state stack whose top is YYSSP. */

int yysyntax_error (YYSIZE_T *yymsg_alloc, char **yymsg, yytype_int16 *yyssp, int yytoken)
{
    YYSIZE_T yysize0 = yytnamerr (YY_NULLPTR, yytname[yytoken]);
    YYSIZE_T yysize = yysize0;
    enum { YYERROR_VERBOSE_ARGS_MAXIMUM = 5 };
    /* Internationalized format string. */
    const char *yyformat = YY_NULLPTR;
    /* Arguments of yyformat. */
    char const *yyarg[YYERROR_VERBOSE_ARGS_MAXIMUM];
    /* Number of reported tokens (one for the "unexpected", one per
int yycount = 0;

/* There are many possibilities here to consider:
- If this state is a consistent state with a default action, then
  the only way this function was invoked is if the default action
  is an error action. In that case, don't check for expected
tokens because there are none.
- The only way there can be no lookahead present (in yychar) is if
  this state is a consistent state with a default action. Thus,
detecting the absence of a lookahead is sufficient to determine
that there is no unexpected or expected token to report. In that
case, just report a simple "syntax error".
- Don't assume there isn't a lookahead just because this state is a
  consistent state with a default action. There might have been a
previous inconsistent state, consistent state with a non-default
action, or user semantic action that manipulated yychar.
- Of course, the expected token list depends on states to have
  correct lookahead information, and it depends on the parser not
to perform extra reductions after fetching a lookahead from the
scanner and before detecting a syntax error. Thus, state merging
(from LALR or IELR) and default reductions corrupt the expected
token list. However, the list is correct for canonical LR with
one exception: it will still contain any token that will not be
accepted due to an error action in a later state.
*/
if (yytoken != YYEMPTY)
{
  int yyn = yypact[*yyssp];
  yyarg[yycount++] = yytname[yytoken];
  if (!yypact_value_is_default (yyn))
  {
    /* Start YYX at -YYN if negative to avoid negative indexes in
     YYCHECK. In other words, skip the first -YYN actions for
     this state because they are default actions. */
    int yyxbegin = yyn < 0 ? -yyn : 0;
    /* Stay within bounds of both yycheck and yytname. */
    int yychecklim = YYLAST - yyn + 1;
    int yyxend = yychecklim < YYNTOKENS ? yychecklim : YYNTOKENS;
    int yyx;
    for (yyx = yyxbegin; yyx < yyxend; ++yyx)
    {
      if (yycheck[yyx + yyn] == yyx && yyx != YYTERROR
          && !yytable_value_is_error (yytable[yyx + yyn]))
      {
        if (yycount == YYERROR_VERBOSE_ARGS_MAXIMUM)
        {
          yycount = 1;
        }
YYSIZE_T yysize1 = yysize + yystrlen(yyformat);
if (! (yysize <= yysize1
    && yysize1 <= YYSTACK_ALLOC_MAXIMUM))
return 2;
yysize = yysize1;
}

if (*yymsg_alloc < yysize)
{
  *yymsg_alloc = 2 * yysize;
  if (! (yysize <= *yymsg_alloc
        && *yymsg_alloc <= YYSTACK_ALLOCP_MAXIMUM))
    *yymsg_alloc = YYSTACK_ALLOCP_MAXIMUM;
  return 1;
}

/* Avoid sprintf, as that infringes on the user's name space. 
   Don't have undefined behavior even if the translation
produced a string with the wrong number of "%s"s. */
{
    char *yyp = *yymsg;
    int yyi = 0;
    while (("%yyp = %yyformat != '\0'
        if (*yyp == '%' && yyformat[1] == 's' && yyi < yycount)
            yyp += yytnamerr (yyp, yyarg[yyi++]);
            yyformat += 2;
        }
    else
        {
            yyp++;
            yyformat++;
        }
    }
return 0;
}
#endif /* YYERROR_VERBOSE */

/*--------------------------*/
| Release the memory associated to this symbol. |
'--------------------------*/

static void
yydestruct (const char *yymsg, int yytype, YYSTYPE *yyvaluep, YYLTYPE *yylocationp, CfgLexer *lexer,
LogExprNode **result, gpointer arg)
{
    YYUSE (yyvaluep);
    YYUSE (yylocationp);
    YYUSE (lexer);
    YYUSE (result);
    YYUSE (arg);
    if (!yymsg)
        yymsg = "Deleting";
    YY_SYMBOL_PRINT (yymsg, yytype, yyvaluep, yylocationp);

    YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
    YYUSE (yytype);
    YY_IGNORE_MAYBE_UNINITIALIZED_END

    YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
    YYUSE (yytype);
    YY_IGNORE_MAYBE_UNINITIALIZED_END

    /*--------*/
    | yyparse. |
    '--------*/
int
yyparse (CfgLexer *lexer, LogExprNode **result, gpointer arg)
{
    /* The lookahead symbol. */
    int yychar;

    /* The semantic value of the lookahead symbol. */
    /* Default value used for initialization, for pacifying older GCCs
       or non-GCC compilers. */
    YY_INITIAL_VALUE (static YYSTYPE yyval_default;)
    YYSTYPE yylval YY_INITIAL_VALUE (= yyval_default);

    /* Location data for the lookahead symbol. */
    static YYLTYPE yyloc_default
    # if defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL
       = { 1, 1, 1, 1 }
    # endif
    ;
    YYLTYPE yylloc = yyloc_default;

    /* Number of syntax errors so far. */
    int yynerrs;

    int yystate;
    /* Number of tokens to shift before error messages enabled. */
    int yyerrstatus;

    /* The stacks and their tools:
       'yyss': related to states.
       'yyvs': related to semantic values.
       'yyls': related to locations.

       Refer to the stacks through separate pointers, to allow yyoverflow
to realtime them elsewhere. */

    /* The state stack. */
    yytype_int16 yyssa[YYINITDEPTH];
    yytype_int16 *yyss;
    yytype_int16 *yyssp;

    /* The semantic value stack. */
    YYSTYPE yyvsa[YYINITDEPTH];
    YYSTYPE *yyvs;
    YYSTYPE *yyvsp;

    /* The location stack. */
}
YYLTYPE yylsa[YYINITDEPTH];
YYLTYPE *yyls;
YYLTYPE *yylsp;

/\ The locations where the error started and ended. */
YYLTYPE yyerror_range[3];

YYSIZE_T yystacksize;

int yyn;
int yyresult;
/* Lookahead token as an internal (translated) token number. */
int yytoklen = 0;
/* The variables used to return semantic value and location from the
   action routines. */
YYSTYPE yyval;
YYLTYPE yyloc;

#if YYERROR_VERBOSE
/* Buffer for error messages, and its allocated size. */
char yymsgbuf[128];
char *yymsg = yymsgbuf;
YYSIZE_T yymsg_alloc = sizeof yymsgbuf;
#endif

#define YYPOPSTACK(N)   (yyvsp -= (N), yyssp -= (N), yylsp -= (N))
/* The number of symbols on the RHS of the reduced rule.
   Keep to zero when no symbol should be popped. */
int yylen = 0;

yyvsp = yyss = yyssa;
yyvsp = yyvs = yyvsa;
yylsp = yyls = yylsa;
yystacksize = YYINITDEPTH;

YYDPRINTF ((stderr, "Starting parse\n"));

yystate = 0;
yyerrstatus = 0;
yynerrs = 0;
yychar = YYEMPTY; /* Cause a token to be read. */
yyvalsp[0] = yyloc;
goto yysetstate;

/*------------------------------------------------------------.
| yynewstate -- Push a new state, which is found in yystate. |
| ----------------------------------------------------------*/
yynewstate:
/* In all cases, when you get here, the value and location stacks
   have just been pushed. So pushing a state here evens the stacks. */
yyssp++;

yysetstate:
*yyssp = yystate;

if (yyss + yystacksize - 1 <= yyssp)
{
    /* Get the current used size of the three stacks, in elements. */
    YYSIZE_T yysize = yyssp - yyss + 1;

#ifdef yyoverflow
    {
        /* Give user a chance to reallocate the stack. Use copies of
           these so that the &'s don't force the real ones into
        memory. */
        YYSTYPE *yyvs1 = yyvs;
        yytype_int16 *yyss1 = yyss;
        YYLTYPE *yyls1 = yyls;
        /* Each stack pointer address is followed by the size of the
           data in use in that stack, in bytes. This used to be a
           conditional around just the two extra args, but that might
           be undefined if yyoverflow is a macro. */
        yyoverflow (YY_("memory exhausted"),
                   &yyss1, yysize * sizeof (*yyssp),
                   &yyvs1, yysize * sizeof (*yyvsp),
                   &yyls1, yysize * sizeof (*yylsp),
                   &yystacksize);

        yyls = yyls1;
        yyss = yyss1;
        yyvs = yyvs1;
    }
#else /* no yyoverflow */
    # ifndef YYSTACK_RELOCATE
        goto yyexhaustedlab;
    # else /* no yyoverflow */
    # ifdef YYSTACK_RELOCATE
        goto yyexhaustedlab;
    # else
        /* Extend the stack our own way. */
        if (YYMAXDEPTH <= yystacksize)
            goto yyexhaustedlab;
        yystacksize *= 2;
        if (YYMAXDEPTH < yystacksize)
            yystacksize = YYMAXDEPTH;
    }
yytype_int16 *yyss1 = yyss;
union yyalloc *yyptr =
  (union yyalloc *) YYSTACK_ALLOC (YYSTACK_BYTES (yystacksize));
if (! yyptr)
  goto yyexhaustedlab;
YYSTACK_RELOCATE (yyss_alloc, yyss);
YYSTACK_RELOCATE (yyvs_alloc, yyvs);
YYSTACK_RELOCATE (yyls_alloc, yyls);
#undef YYSTACK_RELOCATE
  if (yyss1 != yyssa)
    YYSTACK_FREE (yyss1);
}
#endif /* no yyoverflow */

yyssp = yyss + yysize - 1;
yyvsp = yyvs + yysize - 1;
yylsp = yyls + yysize - 1;

YYDPRINTF ((stderr, "Stack size increased to %lu\n",
  (unsigned long int) yystacksize));

if (yyss + yystacksize - 1 <= yyssp)
  YYABORT;
}

YYDPRINTF ((stderr, "Entering state %d\n", yystate));

if (ystate == YYFINAL)
  YYACCEPT;

goto yybackup;

/*-------------.
 | yybackup.    |
 '-------------*/

yybackup:

/* Do appropriate processing given the current state. Read a
  lookahead token if we need one and don't already have one. */

/* First try to decide what to do without reference to lookahead token. */
yyn = yypact[yystate];
if (yypact_value_is_default (yyn))
  goto yydefault;

/* Not known => get a lookahead token if don't already have one. */
/* YYCHAR is either YYEMPTY or YYEOF or a valid lookahead symbol. */
if (yychar == YYEMPTY)
{
    YYDPRINTF ((stderr, "Reading a token: ");
    yychar = yylex (&yylval, &yylloc, lexer);
}

if (yychar <= YYEOF)
{
    yychar = yytoken = YYEOF;
    YYDPRINTF ((stderr, "Now at end of input.
"));
} else
{
    yytoken = YYTRANSLATE (yychar);
    YY_SYMBOL_PRINT ("Next token is", yytoken, &yylval, &yylloc);
}

/* If the proper action on seeing token YYTOKEN is to reduce or to 
   detect an error, take that action. */
yyn += yytoken;
if (yyn < 0 || YYLAST < yyn || yycheck[yyn] != yytoken)
goto yydefault;
yyn = yytable[yyn];
if (yyn <= 0)
{
    if (yytable_value_is_error (yyn))
        goto yyerrlab;
    yyn = -yyn;
    goto yyreduce;
}

/* Count tokens shifted since error; after three, turn off error 
   status. */
if (yyerrstatus)
    yyerrstatus--;

/* Shift the lookahead token. */
YY_SYMBOL_PRINT ("Shifting", yytoken, &yylval, &yylloc);

/* Discard the shifted token. */
yychar = YYEMPTY;

yystate = yyn;
YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
*++yyvsp = yylval;
YY_IGNORE_MAYBE_UNINITIALIZED_END
*++yylsp = yylloc;
goto yynewstate;

/*-----------------------------------------------------------
| yydefault -- do the default action for the current state. |
'-----------------------------------------------------------*/

yydefault:
    yyn = yydefact[yystate];
    if (yyn == 0)
        goto yyerrlab;
    goto yyreduce;

/*-----------------------------------------------------------
| yyreduce -- Do a reduction. |
'-----------------------------*/

yyreduce:
    /* yyn is the number of a rule to reduce with. */
    yynlen = yyr2[yyn];

    /* If YYLEN is nonzero, implement the default value of the action:
    '$$ = $1'.
    Otherwise, the following line sets YYVAL to garbage.
    This behavior is undocumented and Bison
    users should not rely upon it. Assigning to YYVAL
    unconditionally makes the parser a bit smaller, and it avoids a
    GCC warning that YYVAL may be used uninitialized. */
    yyval = yyvsp[1-yynlen];

    /* Default location. */
    YYLLOC_DEFAULT (yyloc, (yylsp - yynlen), yynlen);
    YY_REDUCE_PRINT (yyn);
    switch (yyn)
    {
    case 2:
        #line 387 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
        { *(yyval.ptr) = log_expr_node_append_tail((yyvsp[-1].ptr), (yyvsp[0].ptr)); if (yychar != YYEMPTY) { cfg_lexer_unput_token(lexer, &yylval); } YYACCEPT; }
        #line 2942 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
        break;

    case 3:
        #line 391 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
        { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-1].ptr), &(yylsp[-2])), (yyvsp[-2]), (yyvsp[-1])); }
        #line 2948 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
        break;


case 4:
#line 392 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); }
#line 2954 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 5:
#line 393 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = NULL; }
#line 2960 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 6:
#line 398 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    {
      GError *error = NULL;

      (yyval.ptr) = log_template_new(configuration, (yyvsp[0].cptr));

      CHECK_ERROR_GERROR(log_template_compile((yyval.ptr), (yyvsp[0].cptr), &error), (yylsp[0]), error, "error compiling replacement");

      free((yyvsp[0].cptr));
    }
#line 2972 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 7:
#line 409 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    {
      last_rewrite = log_rewrite_subst_new((yyvsp[0].ptr), configuration);
      log_template_unref((yyvsp[0].ptr));
    }
#line 2981 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 8:
#line 414 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    {
      GError *error = NULL;
      CHECK_ERROR_GERROR(log_rewrite_subst_compile_pattern(last_rewrite, (yyval[-4].cptr), &error), (yylsp[-4]), error, "error compiling search pattern");
      free((yyval[-4].cptr));
      (yyval.ptr) = last_rewrite;
    }
#line 2992 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 9:
case 10:
    #line 425 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = last_rewrite; }
    #line 3007 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 11:
    #line 426 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = log_rewrite_set_tag_new((yyvsp[-1].cptr), TRUE, configuration); free((yyvsp[-1].cptr)); } 
    #line 3013 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 12:
    #line 427 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = log_rewrite_set_tag_new((yyvsp[-1].cptr), FALSE, configuration); free((yyvsp[-1].cptr)); } 
    #line 3019 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 13:
    #line 429 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { 
        last_rewrite = log_rewrite_groupset_new((yyvsp[0].ptr), configuration); 
        log_template_unref((yyvsp[0].ptr));
    } 
    #line 3028 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 14:
    #line 433 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = last_rewrite; } 
    #line 3034 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 15:
    #line 436 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { 
        Plugin *p;
        gint context = LLCONTEXT_REWRITE;

        p = plugin_find(configuration, context, (yyvsp[0].cptr));
CHECK_ERROR(p, (yyvsp[0]), "%s plugin %s not found",
cfg lexer lookup context name by type(context), (yyvsp[0].cptr));

last_rewrite = (LogRewrite *) plugin_parse_config(p, configuration, &(yyvsp[0]), NULL);
free((yyvsp[0].cptr));
if (!last_rewrite)
    {
        YYERROR;
    }
    (yyval.ptr) = last_rewrite;
}
#line 3054 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 18:
#line 460 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    {
        log_rewrite_groupset_add_fields(last_rewrite, (yyvsp[-1].ptr));
    }
#line 3062 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 22:
#line 472 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { last_matcher_options = log_rewrite_subst_get_matcher_options(last_rewrite); } 
#line 3068 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 27:
#line 483 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    {
        const gchar *p = (yyvsp[-1].cptr);
        if (p[0] == '$')
            {
                msg_warning("Value references in rewrite rules should not use the '$' prefix, those are only needed in templates",
                        evt_tag_str("value", (yyvsp[-1].ptr)),
                        NULL);
                p += 1;
            }
        last_rewrite->value_handle = log_msg_get_value_handle(p);
        CHECK_ERROR(!log_msg_is_handle_macro(last_rewrite->value_handle), (yyvsp[-1]), "%s is read-only, it cannot be changed in rewrite rules", p);
        CHECK_ERROR(!log_msg_is_value_name_valid(p), (yyvsp[-1]), "%s is not a valid name for a name-value pair, perhaps a misspelled .SDATA reference?", p);
        free((yyvsp[-1].cptr));
    }
#line 3087 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 29:
#line 502 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{
    FilterExprNode *filter_expr;

    CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&filter_expr_parser, lexer, (gpointer *)
    &filter_expr, NULL), (yylsp[-1]));
    log_rewrite_set_condition(last_rewrite, filter_expr);
}
#line 3098 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 31:
#line 514 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{ cfg_lexer_push_context(lexer, LL_CONTEXT_SOURCE, NULL, "source"); }
#line 3104 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 32:
#line 516 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{ cfg_lexer_pop_context(lexer); }
#line 3110 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 33:
#line 517 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{
    (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc));
}
#line 3118 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 34:
#line 523 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{ (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])),
(yyvsp[0].ptr)); }
#line 3124 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 35:
#line 524 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{ (yyval.ptr) = log_expr_node_append_tail((yyval.ptr), (yyval.ptr)); }
#line 3130 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 36:
case 37:
  
  case 38:
  
  case 39:
  
  case 40:
  
  case 41:
last_source_options = &((AFInterSourceDriver *) last_driver)->source_options;
}
#line 3183 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 42:
#line 561 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{ (yyval.ptr) = last_driver; }
#line 3189 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 46:
#line 575 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{
FilterExprNode *last_filter_expr = NULL;

CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&filter_expr_parser, lexer, (gpointer *)
&last_filter_expr, NULL), (yyloc));

(yyval.ptr) = log_expr_node_new_pipe(log_filter_pipe_new(last_filter_expr, configuration), &(yyloc));
}
#line 3201 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 47:
#line 586 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{
LogExprNode *last_parser_expr = NULL;

CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&parser_expr_parser, lexer, (gpointer *)
&last_parser_expr, NULL), (yyloc));

(yyval.ptr) = last_parser_expr;
}
#line 3212 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 48:
#line 596 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{
LogExprNode *last_rewrite_expr = NULL;

CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&rewrite_expr_parser, lexer, (gpointer *)
&last_rewrite_expr, NULL), (yyloc));

(yyval.ptr) = last_rewrite_expr;
}
#line 3223 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;
Plugin *p;
gint context = LL_CONTEXT_DESTINATION;

p = plugin_find(configuration, context, (yyvsp[0].cptr));
CHECK_ERROR(p, (yylsp[0]), "%s plugin %s not found",
cfglexer_lookup_context_name_by_type(context), (yyvsp[0].cptr));

last_driver = (LogDriver *) plugin_parse_config(p, configuration, &yylsp[0], NULL);
free((yyvsp[0].cptr));
if (!last_driver)
{
    YYERROR;
}
(yyval.ptr) = last_driver;

#line 3287 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 57:
#line 645 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{ log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); (yyval.ptr) = (yyvsp[-2].ptr); }
#line 3293 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 58:
#line 646 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{ (yyval.ptr) = NULL; }
#line 3299 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 59:
#line 650 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{ (yyval.ptr) = log_expr_node_new_source_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }  
#line 3305 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 60:
#line 651 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{ (yyval.ptr) = log_expr_node_new_source(NULL, (yyvsp[-1].ptr), &(yyloc)); }  
#line 3311 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 61:
#line 652 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{ (yyval.ptr) = log_expr_node_new_filter_reference((yyvsp[-1].cptr), &(yyloc)); free((yyval.ptr)); }  
#line 3317 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;
case 62:
#line 653 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = log_expr_node_new_filter(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3323 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 63:
#line 654 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = log_expr_node_new_parser_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3329 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 64:
#line 655 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = log_expr_node_new_parser(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3335 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 65:
#line 656 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = log_expr_node_new_rewrite_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3341 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 66:
#line 657 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = log_expr_node_new_rewrite(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3347 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 67:
#line 658 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = log_expr_node_new_destination_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }
#line 3353 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 68:
#line 659 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = log_expr_node_new_destination(NULL, (yyvsp[-1].ptr), &(yyloc)); }
#line 3359 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 69:
#line 660 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = (yyvsp[0].ptr); }
#line 3365 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;
case 70:
#line 664 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
   { (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc)); }  
#line 3371 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
   break;

case 71:
#line 676 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
   { (yyval.ptr) = (yyvsp[0].ptr) ? log_expr_node_new_junction((yyvsp[0].ptr), &(yylsp[0])) : NULL; }  
#line 3377 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
   break;

case 72:
#line 681 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
   { log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); (yyval.ptr) = (yyvsp[-2].ptr); }  
#line 3383 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
   break;

case 73:
#line 687 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
   { (yyval.num) = (yyvsp[-2].num); }  
#line 3389 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
   break;

case 74:
#line 691 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
   { (yyval.ptr) = log_expr_node_new_log(log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[-1].ptr)), (yyvsp[0].num), &(yyloc)); }  
#line 3407 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
   break;

case 75:
#line 695 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
   { (yyval.num) = (yyvsp[-2].num); }  
#line 3413 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
   break;
case 78:
#line 696 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.num) = 0; }
#line 3419 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 79:
#line 700 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.num) = log_expr_node_lookup_flag((yyvsp[-1].cptr)) | (yyvsp[0].num); free((yyvsp[-1].cptr)); }
#line 3425 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 80:
#line 701 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.num) = 0; }
#line 3431 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 83:
#line 737 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.num) = 1; }
#line 3437 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 84:
#line 738 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.num) = 0; }
#line 3443 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 85:
#line 739 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.num) = (yyvsp[0].num); }
#line 3449 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 86:
#line 743 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.num) = (yyvsp[0].num); }
#line 3455 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 87:
#line 744 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.num) = 2; }
#line 3461 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;
case 88:
  
  #line 754 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = g_list_reverse((yyvsp[0].ptr)); } 
  #line 3467 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  break;

case 89:
  
  #line 758 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = g_list_append((yyvsp[0].ptr), g_strdup((yyvsp[-1].cptr))); free((yyvsp[-1].cptr)); } 
  #line 3473 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  break;

case 90:
  
  #line 759 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { (yyval.ptr) = NULL; } 
  #line 3479 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  break;

case 93:
  
  #line 810 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last_source_options->init_window_size = (yyvsp[-1].num); } 
  #line 3485 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  break;

case 94:
  
  #line 811 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last_source_options->chain_hostnames = (yyvsp[-1].num); } 
  #line 3491 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  break;

case 95:
  
  #line 812 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last_source_options->keep_hostname = (yyvsp[-1].num); } 
  #line 3497 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  break;

case 96:
  
  #line 813 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last_source_options->program_override = g_strdup((yyvsp[-1].cptr)); free((yyvsp[-1].cptr)); } 
  #line 3503 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  break;

case 97:
  
  #line 814 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { last_source_options->host_override = g_strdup((yyvsp[-1].cptr)); free((yyvsp[-1].cptr)); } 
  #line 3509 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  break;
case 98:
    #line 815 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { gchar *p = strrchr((yyvsp[-1].cptr), ':'); if (p) *p = 0; last_source_options->program_override =
        g_strdup((yyvsp[-1].cptr)); free((yyvsp[-1].cptr)); }
    #line 3515 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 99:
    #line 816 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { last_source_options->keep_timestamp = (yyvsp[-1].num); }
    #line 3521 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 100:
    #line 817 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { log_source_options_set_tags(last_source_options, (yyvsp[-1].ptr)); }
    #line 3527 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 101:
    #line 818 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { last_host_resolve_options = &last_source_options->host_resolve_options; }
    #line 3533 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 103:
    #line 831 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { last_host_resolve_options->use_fqdn = (yyvsp[-1].num); }
    #line 3539 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 104:
    #line 832 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { last_host_resolve_options->use_dns = (yyvsp[-1].num); }
    #line 3545 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 105:
    #line 833 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { last_host_resolve_options->use_dns_cache = (yyvsp[-1].num); }
    #line 3551 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 106:
    #line 834 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { last_host_resolve_options->normalize_hostnames = (yyvsp[-1].num); }
    #line 3557 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 107:
#line 978 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { CHECK_ERROR(log_matcher_options_set_type(last_matcher_options, (yyvsp[-1].cptr)), (yylsp[-1]),
    "unknown matcher type"); free((yyvsp[-1].cptr)); }
#line 3563 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 109:
#line 983 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { CHECK_ERROR(log_matcher_options_process_flag(last_matcher_options, (yyvsp[-1].cptr)), (yylsp[-1]),
    "unknown matcher flag"); free((yyvsp[-1].cptr)); }
#line 3569 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

default: break;
}
/* User semantic actions sometimes alter yychar, and that requires
 that yytoken be updated with the new translation. We take the
 approach of translating immediately before every use of yytoken.
 One alternative is translating here after every semantic action,
 but that translation would be missed if the semantic action invokes
 YYABORT, YYACCEPT, or YYERROR immediately after altering yychar or
 if it invokes YYBACKUP. In the case of YYABORT or YYACCEPT, an
 incorrect destructor might then be invoked immediately. In the
 case of YYERROR or YYBACKUP, subsequent parser actions might lead
 to an incorrect destructor call or verbose syntax error message
 before the lookahead is translated. */
YY_SYMBOL_PRINT ("-> $$ =", yyr1[yyn], &yyval, &yyloc);

YYPOPSTACK (yylen);
yylen = 0;
YY_STACK_PRINT (yyss, yyssp);

*++yyvsp = yyval;
*++yylsp = yyloc;

/* Now 'shift' the result of the reduction. Determine what state
 that goes to, based on the state we popped back to and the rule
 number reduced by. */

yyn = yyr1[yyn];

ystate = yypgoto[yyn - YYNTOKENS] + *yyssp;
if (0 <= yystate && yystate <= YYLAST && yycheck[yystate] == *yyssp)
yystate = yytable[yystate];
else
yystate = yydefgoto[yyn - YYNTOKENS];

goto yynewstate;

/*--------------------------------------.
 | yyerrlab -- here on detecting error. |
'--------------------------------------*/

yyerrlab:
/* Make sure we have latest lookahead translation. See comments at
 user semantic actions for why this is necessary. */
yytoken = yychar == YYEMPTY ? YYEMPTY : YYTRANSLATE (yychar);

/* If not already recovering from an error, report this error. */
if (!yyerrstatus)
{
++yynerrs;
#if ! YYERROR_VERBOSE
yyerror (&yylloc, lexer, result, arg, YY_("syntax error"));
#else
#define YYSYNTAX_ERROR yysyntax_error (&yymsg_alloc, &yymsg, yyssp, yytoken)
{
char const *yymsgp = YY_("syntax error");
int yysyntax_error_status;
 yysyntax_error_status = YYSYNTAX_ERROR;
if (yysyntax_error_status == 0)
  yymsgp = yymsg;
else if (yysyntax_error_status == 1)
  {
    if (yymsg != yymsgbuf)
      YYSTACK_FREE (yymsg);
    yymsg = (char *) YYSTACK_ALLOC (yymsg_alloc);
    if (!yymsg)
      {
        yymsg = yymsgbuf;
        yymsg_alloc = sizeof yymsgbuf;
        yysyntax_error_status = 2;
      }
    else
    { 
      yysyntax_error_status = YYSYNTAX_ERROR;
      yymsgp = yymsg;
    }
  }
  yyerror (&yylloc, lexer, result, arg, yymsgp);
#endif
}
if (yysyntax_error_status == 2)
goto yyexhaustedlab;
}
#endif
}

yyerror_range[1] = yylloc;

if (yyerrstatus == 3)
{
  /* If just tried and failed to reuse lookahead token after an
   error, discard it. */

  if (yychar <= YYEOF)
  {
    /* Return failure if at end of input. */
    if (yychar == YYEOF)
      YYABORT;
  }
  else
  {
    yydestruct("Error: discarding",
               yytoken, &yylval, &yylloc, lexer, result, arg);
    yychar = YYEMPTY;
  }
}
else
{
  yyerrorlab:
  /* Pacify compilers like GCC when the user code never invokes
   YYERROR and the label yyerrorlab therefore never appears in user
   code. */
  if (/*CONSTCOND*/ 0)
    goto yyerrorlab;

  yyerror_range[1] = yylsp[1-yylen];
  /* Do not reclaim the symbols of the rule whose action triggered
   this YYERROR. */
  YYPOPSTACK (yylen);
yylen = 0;
YY_STACK_PRINT (yyss, yyssp);
ystate = *yyssp;
goto yyerrlab1;

/*-------------------------------------------------------------
 | yyerrlab1 -- common code for both syntax error and YYERROR.  |
 | '-------------------------------------------------------------*/

yyerrlab1:
  yyerrstatus = 3;  /* Each real token shifted decrements this. */
  for (;;)
    
      yyn = yypact[ystate];
      if (!yypact_value_is_default (yyn))
        
          yyn += YYTERROR;
          if (0 <= yyn && yyn <= YYLAST && yycheck[yyn] == YYTERROR)
            
              yyn = yytable[yyn];
              if (0 < yyn)
                break;
        
      
/* Pop the current state because it cannot handle the error token. */
      if (yyssp == yyss)
        YYABORT;

    yynerror_range[1] = *yylsp;
    yydestruct ("Error: popping",
                yystos[ystate], yyvsp, yylsp, lexer, result, arg);
    YYPOPSTACK (1);
    yystate = *yyssp;
    YY_STACK_PRINT (yyss, yyssp);
  } /* yyerror_range[1] = *yylsp; */

YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
  *++yyvsp = yyval;
YY_IGNORE_MAYBE_UNINITIALIZED_END

yyerror_range[2] = yylloc;
/* Using YYLLOC is tempting, but would change the location of
   the lookahead.  YYLOC is available though. */
YYLLOC_DEFAULT (yyloc, yyerror_range, 2);
*++yylsp = yylloc;

Open Source Used In Firepower 6.5
/* Shift the error token. */
YY_SYMBOL_PRINT ("Shifting", yystos[yyn], yyvsp, yylsp);

ystate = yyn;
goto yynewstate;

/*-------------------------------------.
| yyacceptlab -- YYACCEPT comes here. |
'-------------------------------------*/
yyacceptlab:
yyresult = 0;
goto yyreturn;

/*-----------------------------------.
| yyabortlab -- YYABORT comes here. |
'-----------------------------------*/
yyabortlab:
yyresult = 1;
goto yyreturn;

#if !defined yyoverflow || YYERROR_VERBOSE
/*-----------------------------------.
| yyexhaustedlab -- memory exhaustion comes here. |
'-----------------------------------*/
yyexhaustedlab:
yyerror (&yylloc, lexer, result, arg, YY_("memory exhausted"));
yyresult = 2;
/* Fall through. */
#endif

yyreturn:
if (yychar != YYEMPTY)
{
  /* Make sure we have latest lookahead translation. See comments at
     user semantic actions for why this is necessary. */
  yytoken = YYTRANSLATE (yychar);
  yydestruct ("Cleanup: discarding lookahead",
             yytoken, &yylval, &yylloc, lexer, result, arg);
}
/* Do not reclaim the symbols of the rule whose action triggered
this YYABORT or YYACCEPT. */
YYPOPSTACK (yylen);
YY_STACK_PRINT (yyss, yyssp);
while (yyssp != yyss)
{
  yydestruct ("Cleanup: popping",
              yystos[*yyssp], yyvsp, yylsp, lexer, result, arg);
}
YYPOPSTACK (1);
}
#endif
if (yyss != yyssa)
    YYSTACK_FREE (yyss);
#endif
#if YYERROR_VERBOSE
if (yymsg != yymsgbuf)
    YYSTACK_FREE (yymsg);
#endif
return yyresult;
}
#line 1048 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1906 */

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=====

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1.342 sysstat 11.1.5

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon
* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.344 sysvinit-inittab 2.88dsf

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Version 2, June 1991

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1.345 tar 1.28

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Version 3, 29 June 2007

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1.346 tcl 8.6.4 :r0.0

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

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

6. As an exception to the Sections above, you may also 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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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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 */

// JSLitmus.js

//
// History:
// 2008-10-27: Initial release
// 2008-11-09: Account for iteration loop overhead
// 2008-11-13: Added OS detection
// 2009-02-25: Create tinyURL automatically, shift-click runs tests in reverse
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* 
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May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
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1.363 update-rc.d 0.7

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1.364 util-linux 2.26.2
1.364.1 Available under license :
<table>
<thead>
<tr>
<th>NR</th>
<th>START</th>
<th>END</th>
<th>SECTORS</th>
<th>SIZE</th>
<th>NAME</th>
<th>UUID</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>32</td>
<td>7679</td>
<td>7648</td>
<td>3.8M</td>
<td>f1c9645dbc14efddc7d8a322685f26eb</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>7680</td>
<td>16383</td>
<td>8704</td>
<td>4.3M</td>
<td>bsd.img</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>7936</td>
<td>12799</td>
<td>4864</td>
<td>2.4M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>12544</td>
<td>16127</td>
<td>3584</td>
<td>1.8M</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

size: 4456448, sector size: 512, PT: bsd, offset: 512, id=(null)

---

#1: 7936 4864 0x7
#2: 12544 3584 0x7
size: 8388608, sector size: 512, PT: dos, offset: 446, id=8f8378c0

---

#1: 32 7648 0x83 uuid='8f8378c0-01'
#2: 7680 8704 0xa5 uuid='8f8378c0-02'
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8d155a88a045db233418dd73f8e 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
2e1cee529cb59c9341afef0443f196a1 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
---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  
  a  4096  6144  2049  1M  4.2BSD       0     0   0
  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): 

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):
BZh91AY&SY"hC+[H]yL*UT'{JDCCMhd?TPJ
4b"LLLD3Mf0h
4JIM&hC&A
4h
#!/bin/bash
#
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#
TS_TOPDIR="${0%/*}/../..
TS_DESC="nested BSD"
.ts_check_test_command "STSH_CMD_FDISK"
.ts_check_test_command "STSH_HELPER_SYSINFO"

FDISK_CMD_CREATE_DOSLABEL="o
" # create dos label
FDISK_CMD_SETID="x\n0x1\n\n" # set non-random ID
FDISK_CMD_WRITE_CLOSE="w\n\n" # write to image
FDISK_CMD_CREATE_PRIMARY1="n\np\n1\n+1MiB" # 1st primary partition of size 1MiB
FDISK_CMD_CREATE_PRIMARY2="n\np\n2\n\n" # 2nd primary partition for whole of the disk
FDISK_CMD_CHANGE_PART2TYPE="\n\n" # change partition type FreeBSD
FDISK_CMD_BSD_CREATE="b
y
"                # create nested BSD PT
FDISK_CMD_BSD_LIST="b
p
q
"                # list nested BSD PT and quit
FDISK_CMD_BSD_CREATE_PART="b
n
a

+1M
" # add BSD partition 'a', size 1MiB
FDISK_CMD_BSD_PARTTYPE="b
t
a
7
"        # set partition 'a' to type 4.2BSD
FDISK_CMD_BSD_LIST_TYPES="b
l
q
"         # list supported PT types and quit

# BSD disklabel depends on sector/offset and endianess. We convert the md5sums
# into the most common values (little endian, BSD_LABELSECTOR = 1,
# BSDLABELOFFSET = 0) so that they can be easily compared to the expected
# ones.
BYTE_ORDER=$(STS_HELPER_SYSINFO byte-order)
function fdisk_bsd_offset_and_byte_order_clean
{
  # expected md5sums are from x86 systems
  local md5_bsdimg1_LE_0_64="2e1cee529b59c9341afef0443f196a1"
  local md5_bsdimg2_LE_0_64="b5c121c2091b2ff26b880551feac7112"

  if [ $BYTE_ORDER = "BE" ] ; then
    # BSD_LABELSECTOR = 0, BSD_LABELOFFSET = 64
    sed -i -e "s/c2273b529f76351db75596c4b10c0725/$md5_bsdimg1_LE_0_64/" -e "s/787a434a5b99e37d2ce0d92b65437b93cd/$md5_bsdimg2_LE_0_64/" "$TS_OUTPUT"
  else
    # BSD_LABELSECTOR = 0, BSD_LABELOFFSET = 64
    sed -i -e "s/6e90c8a1c2106a4cd4b008f16d71aa6/$md5_bsdimg1_LE_0_64/" -e "s/3739c7959adb42693a69ed7a99914e8/$md5_bsdimg2_LE_0_64/" "$TS_OUTPUT"
  fi
}

function print_layout {
  echo -ne "---layout----------\n" >> $TS_OUTPUT
  $TS_CMD_FDISK -l ${TEST_IMAGE_NAME}  >> $TS_OUTPUT
  echo -ne   "-------------------\n
" >> $TS_OUTPUT
}

function print_bsd_layout {
ts_log "Initialize empty image"
TEST_IMAGE_NAME=$(ts_image_init 10)
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Create new DOS partition table"
echo -e "${FDISK_CMD_CREATE_DOSLABEL}${FDISK_CMD_SETID}${FDISK_CMD_WRITE_CLOSE}"
| $TS_CMD_FDISK $TEST_IMAGE_NAME &>/dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Create 1st primary partition"
echo -e "${FDISK_CMD_CREATE_PRIMARY1}${FDISK_CMD_WRITE_CLOSE}"
| $TS_CMD_FDISK $TEST_IMAGE_NAME &>/dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Set 2nd partition type"
echo -e "${FDISK_CMD_CHANGE_PART2TYPE}${FDISK_CMD_WRITE_CLOSE}"
| $TS_CMD_FDISK $TEST_IMAGE_NAME &>/dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Create default BSD"
echo -e "${FDISK_CMD_BSD_CREATE}${FDISK_CMD_WRITE_CLOSE}"
| $TS_CMD_FDISK $TEST_IMAGE_NAME &>/dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_bsd_layout

echo -e "${FDISK_CMD_BSD_CREATE_PART}${FDISK_CMD_WRITE_CLOSE}"
| $TS_CMD_FDISK $TEST_IMAGE_NAME &>/dev/null

echo -e "${FDISK_CMD_BSD_PARTTYPE}${FDISK_CMD_WRITE_CLOSE}"
| $TS_CMD_FDISK $TEST_IMAGE_NAME &>/dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_bsd_layout

echo -e "${FDISK_CMD_BSD_LIST_TYPES}" | \n$TS_CMD_FDISK '{TEST_IMAGE_NAME}' | \nsed 's/Reading .*/s/Welcome to fdisk .*/' >> $TS_OUTPUT 2>&1

fdisk_bsd_offset_and_byte_order_clean
ts_fdisk_clean '{TEST_IMAGE_NAME}'
ts_finalize

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if version < 600
  " Remove any old syntax stuff hanging around
  syn clear
else if exists("b:current_syntax")
  finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file filesheet host installed_software media
syn keyword psfObject product root subproduct vendor

syn match  psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString  start=+"+ skip=+\"+ end=+"+ contained

syn match  psfObjTag    "\[-_+A-Z0-9a-z\]+(\[\[-_+A-Z0-9a-z\]\]+\)*" contained
syn match  psfAttAbbrev  "\([-_+A-Z0-9a-z\]+(\[-_+A-Z0-9a-z\]\]+\)*|\[-_+A-Z0-9a-z\]+(\[-_+A-Z0-9a-z\]\]+\)*" contained
syn match  psfObjTags    "\[-_+A-Z0-9a-z\]+(\[-_+A-Z0-9a-z\]\)+\([-_+A-Z0-9a-z\]\]+(\[-_+A-Z0-9a-z\]\)+\)*" contained

syn match  psfNumber    "\d+" contained
syn match  psfFloat     "\d+\.\d+" contained

syn match  psfLongDate  "\d{4}-\d{2}-\d{2}" contained

syn keyword psfState    available configured corrupt installed transient contained
syn keyword psfPState   applied committed superseded contained

syn keyword psfBoolean  false true contained
"Some of the attributes covered by attUnquotString and attQuotString:
  " architecture category_tag control_directory copyright
  " create_date description directory file_permissions install_source
  " install_type location machine_type mod_date number os_name os_release
  " os_version pose_as_os_name pose_as_os_release readme revision
  " share_link title vendor_tag

syn region psfAttUnquotString
   start="^\s*[^# \t\n]\+$" contains=psfUnquotString
   end="$" keepend

syn region psfAttQuotString
   start="^\s*" contains=psfQuotString
   end="$" keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.

syn region psfAttTag
   start="^\s*tag\" contains=psfObjTag
   end="$" keepend

syn region psfAttSpec
   start="^\s*\(ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exrequisites\|prerequisites\|software_spec\|
            superseded\|superseded_by\)\" contains=psfObjTag
   end="$" keepend

syn region psfAttTags
   start="^\s*all_filesets\" contains=psfObjTags
   end="$" keepend

syn region psfAttNumber
   start="^\s*\(compressed_size\|instance_id\|media_sequence_number\|sequence_number\|size\)\" contains=psfNumber
   end="$" keepend

syn region psfAttTime
   start="^\s*\(create_time\|ctime\|mod_time\|mtime\|timestamp\)\" contains=psfNumber
   end="$" keepend

syn region psfAttFloat
   start="^\s*\(data_model_revision\|layout_version\)\" contains=psfFloat
   end="$" keepend

syn region psfAttLongDate
   start="^\s*install_date\" contains=psfLongDate
   end="$" keepend

syn region psfAttState
   start="^\s*\(state\)\" contains=psfState
   end="$" keepend

syn region psfAttPState
   start="^\s*\(patch_state\)\" contains=psfPState
   end="$" keepend

syn region psfAttBoolean
   start="^\s*\(is_kernel\|is_locatable\|is_patch\|is_protected\|is_reboot\|is_reference\|is_secure\|is_sparse\)\" contains=psfBoolean
   end="$" keepend
syn match  psfComment ".*$"

" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
  if version < 508
    let did_psf_syntax_inits = 1
    command -nargs=+ HiLink hi link <args>
  else
    command -nargs=+ HiLink hi def link <args>
  endif
endif

HiLink psfObject       Statement
HiLink psfAttrib       Type
HiLink psfQuotString   String
HiLink psfObjTag       Identifier
HiLink psfAttAbbrev    PreProc
HiLink psfObjTags      Identifier

HiLink psfComment      Comment

delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
*uganda.txt*    For Vim version 7.4.  Last change: 2013 Jul 06

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- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre*KCC* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted.
For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information!  See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about
sponsoring.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used internet-based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
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Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
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Finsterrueihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

1.366 waagent.py 2.1.6
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1.369 wireless-tools 30~pre9 :Tue, 23 Feb 2010 Tim Gardner

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1.372 xmlsec1 1.2.20

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References

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http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

* Cordys R&D BV

* CryptoCom LTD

1.373 xz/xz-cli-tools 5.2.1 :1.0

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#SET_PATH - This line is a placeholder to ease patching this script.

# Instead of unsetting XZ_OPT, just make sure that xz will use file format
# autodetection. This way memory usage limit and thread limit can be
# specified via XZ_OPT. With gzip, bzip2, and lzop it's OK to just unset the
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# This file describes the settings to be used by the documentation system
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/
  scanlzma, scan for lzma compressed data in stdin and echo it to stdout.
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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Section 6 states terms for distribution of such executables.

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
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Library will still fall under Section 6.)

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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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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   The data format used by the zlib library is described by RFCs (Request for 
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*/

1.383 Zlib 1.2.3
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/* zlib.h -- interface of the 'zlib' general purpose compression library
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2.8 tcmalloc (including perftools and libunwind) 2.4.91

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3.2 apache common codec 1.4

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Other developers who have contributed code are:

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THE C++ WRAPPER FUNCTIONS
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---------------------------------------------------------------------------

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 */

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

[zlib]

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.3, July 18th, 2005

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

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

*/

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[eldap]

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### 3.46 grizzly-http 2.4.4

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/********************
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 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
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<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

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<li><a href="/foundation/getinvolved.html">Overview</a></li>
<li><a href="http://community.apache.org/">Community Development</a></li>
<li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
<li><a href="http://www.apachecon.com/">ApacheCon</a></li>

</ul>

</li>
</ul>

</div>

</div>

</header>

<!-- / Navigation -->

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<img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">

<a href="http://apache.org/foundation/contributing.html" title="Support Apache" style="margin-left: 150px;">

<img src="/images/SupportApache-small.png" style="height: 150px; width: 150px;">

</a>

</div>

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    var gcse = document.createElement('script');
    gcse.type = 'text/javascript';
    gcse.async = true;
    var s = document.getElementsByTagName('script')[0];
    s.parentNode.insertBefore(gcse, s);
})();

</script>

<gcse:searchbox-only></gcse:searchbox-only>

</div>

<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>

</div>

</div>

</div>

</div>

</div>

</nav>
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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   ZeusBench V1.01
   =============

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

/*

For the expat xml parser component:

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Java Servlet API 2.5 (servlet-api.jar from Tomcat 6.0.14)

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3.74 javax.websocket-client-api 1.0

3.75 jaxb-api 2.2.7

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the
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3.90 jsch 0.1.48

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3.107 log4j 1.2.16

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### 3.114 meld3 1.0.2

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THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
Email local part: ph10
THE C++ WRAPPER FUNCTIONS
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zlib.h -- interface of the 'zlib' general purpose compression library
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On all platforms, Nmap is normally linked with:
- libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
  http://www.tcpdump.org/
- libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/
- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
  http://www.pcre.org/
- 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/
- OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
  http://www.openssl.org/
- LIBLINEAR. Used for IPv6 OS classification.
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/

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/winpcap.
http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:
o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
http://www.python.org/

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o Various X.org libraries. These were built using MacPorts.
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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
  


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.
  
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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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2006-Jan-27

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 * @author Martin Odersky
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3.145 spring-tx 4.0.5.RELEASE

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3.147 spring-webmvc 3.2.4
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3.148 sqlite-jdbc 3.8.7

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

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

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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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- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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- javaee_web_services_1_4.xsd
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- web-common_3_0.xsd
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=================================================================

Wen Quan Yi Micro Hei

Release Notes

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

Summary:

Author  : WenQuanYi Project Contributors
Font Name: WenQuanYi Micro Hei
Version  : 0.2.0-beta (Big-Bang)
Release  : 0
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Droid Sans Fallback extension interface
(http://wenq.org/index.cgi?Fontopia(cn)),
copyright " 2008-2009 mozbug and Qianqian Fang
License  : This font is licensed under Apache2.0 or GPLv3
with font embedding exceptions (see Appendix B).
Read LICENSE_Apache2.txt and LICENSE_GPLv3.txt for details

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

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

I. About this font
WenQuanYi Micro Hei font family is a Sans-Serif style (also known as Hei, Gothic or Dotum among the Chinese/Japanese/Korean users) high quality CJK outline font. It was derived from "Droid Sans Fallback", "Droid Sans" and "Droid Sans Mono" released by Google Corp. This font package contains two faces, "Micro Hei" and "Micro Hei Mono", in form of a True-Type Collection (ttc) file. All the unified CJK Han glyphs, i.e. GBK Hanzi, in the range of U+4E00-U+9FC3 defined in Unicode Standard 5.1 are covered, with additional support to many other international languages such as Latin, Extended Latin, Hanguls and Kanas. The font file is extremely compact (~5M) compared with most known CJK fonts. As a result, it can be used for hand-held devices or embedded systems, or used on PC with a significantly small memory footprint. Because both font faces carry hinting and kerning instructions for Latin glyphs, they are the excellent choices for desktop fonts.

II. Development History

The original Droid Sans Fallback font contain 16,000 Unified Han glyphs, and was officially released by Google under Apache2 license on Dec. 9, 2008 [2]. With a Javascript-based web interface, Fontopia(TM) [1], developed by mozbug and Qianqian Fang, the WenQuanYi contributors had completed over 10,000 new glyphs by combining the spline contours from the existing Droid Han glyphs. By the end of 2008, project phase-1 had almost completed, and phase-2 for CJK Extension A (U+3400-U+4DB5) was brought online on Dec. 29, 2009. A review panel was formed to reinforce the quality of all submitted glyphs [3]. In Jan. 2009, the reviewers had redone over 2000 Hanzi and completed all the missing characters. The nightly-build font has become online since Jan. 16. As of Feb. 2009, there has been over 5500 CJK Extension A Han glyphs completed, which led this font toward a complete GB18030 coverage.

In this font, we incorporated the high quality Latin glyphs from "Droid Sans" and "Droid Sans Mono", which contain not only a better coverage but also the additional hinting and kerning information. The EM of MicroHei and MicroHeiMono fonts were unified to 2048 to retain all the advanced typesetting features.

III. Credits

We cordially thank Google(TM) for generously releasing Droid fonts to public under an open-source license. Google purchased the font from Ascenders Corp. (which was originally designed by a Chinese company).

The project for extending the Droid fonts is based on the web-based glyph-composing applet [1], created by mozbug and Qianqian Fang jointly. They are constantly improving this application targeting at
a web-based collaborative font development environment.

Over a thousand anonymous contributors have participated the project; they submitted over 10,000 new Hanzi glyphs and many modifications. The full update history of the glyphs can be found at [4].

The key members of the review panel, i.e. Isz, FangQ, kmc, Xhacker, philacorns, and an "anonymous" (as requested) contributor, had spent significant amount of efforts to redesign nearly half of the submitted glyphs. We appreciate the incredible effort from this team to make this font available. The detailed review credit can be found at [3]

IV. Language Coverage

The following table is based on the locale data provided by fontconfig (generated by langcover.pl from Dejavu Project http://dejavu.sourceforge.net/wiki/index.php/Font Utilities).

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<td>100% (90/90)</td>
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<tr>
<td>af Afrikaans</td>
<td>100% (69/69)</td>
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<td>(0/264)</td>
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<td>ar Arabic</td>
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<tr>
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V. About "WenQuanYi Project"

The "Wen Quan Yi" Project [5] was founded by Qianqian Fang [6] in Oct. 2004. The goal of this project is to create a web-based collaborative environment for open-source type-face development. The initial focus of the project is to create high quality bitmap character glyphs and outline fonts for all 70,000+ CJK characters currently encoded by the Unicode Consortium. Some of the fonts released by this project have been widely used as the default Chinese desktop fonts by main-stream GNU/Linux distributions.

The Wen Quan Yi Project uses wiki [5] as the primary development tool for glyph creation, documentation and coordinations. Wen Quan Yi wiki also supports glyph version control and nightly build.

VI. Links

[2] http://android.git.kernel.org/?p=platform/frameworks/base.git;a=commit;h=1a2d9dbec96f54d5e0dc26386d01df1d18073ad

VII. Appendix

Appendix A.
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3.164 tyrus-spi 1.15
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package org.glassfish.tyrus.spi;
/**
 * Facade for handling client operations from containers.
 *
 * @author Pavel Bucek (pavel.bucek at oracle.com)
 * @author Ondrej Kosatka (ondrej.kosatka at oracle.com)
 */

public interface ClientEngine {

    /**
     * Create upgrade request and register [@link TimeoutHandler].
     *
     * @param timeoutHandler handshake timeout handler. [@link TimeoutHandler#handleTimeout()] is invoked if
     * @link #processResponse(UpgradeResponse, Writer, Connection.CloseListener)) is not called within
     * handshake timeout.
     * @return request to be send on the wire or [@code null], when the request cannot be created. When [@code null] is
     * returned, client should free all resources tied to current connection.
     */
    UpgradeRequest createUpgradeRequest(TimeoutHandler timeoutHandler);

    /**
     * Process handshake and return [@link ClientUpgradeInfo] with handshake status ([@link ClientUpgradeStatus]).
     *
     * @param upgradeResponse response to be processed.
     * @param writer          used for sending dataframes from client endpoint.
     * @param closeListener   will be called when connection is closed, will be set as listener of returned [@link Connection].
     * @return info with upgrade status.
     * @see #processError(Throwable)
     */
    ClientUpgradeInfo processResponse(UpgradeResponse upgradeResponse, final Writer writer,
                                      final Connection.CloseListener closeListener);

    /**
     * Process error.
     * <p>
     * This method can be called any time when client encounters an error which cannot be handled in the container
     * before [@link ClientUpgradeStatus#SUCCESS] is returned from [@link #processResponse(UpgradeResponse, Writer,
     * Connection.CloseListener)].
     *
     * @param t encountered error.
     * @see #processResponse(UpgradeResponse, Writer, Connection.CloseListener)
     */
    void processError(Throwable t);
/**
 * Indicates to container that handshake timeout was reached.
 */

interface TimeoutHandler {

/**
 * Invoked when timeout is reached. Container is supposed to clean all resources related to
 * @link ClientEngine
 * instance.
 */
 void handleTimeout();
}

/**
 * Upgrade process result.
 * <p>
 * Provides information about upgrade process. There are three possible states which can be reported:
 * <ul>
 * <li>@link ClientUpgradeStatus#ANOTHER_UPGRADE_REQUEST_REQUIRED</li>
 * <li>@link ClientUpgradeStatus#UPGRADE_REQUEST_FAILED</li>
 * <li>@link ClientUpgradeStatus#SUCCESS</li>
 * </ul>
 * <p>
 * When @link getUpgradeStatus() returns @link ClientUpgradeStatus#SUCCESS, client container can
 create
 * @link Connection and start processing read events from the underlying connection and report them to Tyrus
 * runtime.
 * <p>
 * When @link getUpgradeStatus() returns @link ClientUpgradeStatus#UPGRADE_REQUEST_FAILED, client
 container
 * HAS TO close all resources related to currently processed @link UpgradeResponse.
 * <p>
 * When @link getUpgradeStatus() returns @link ClientUpgradeStatus#ANOTHER_UPGRADE_REQUEST_REQUIRED, client
 * container HAS TO close all resources related to currently processed @link UpgradeResponse, open new TCP
 * connection and send @link UpgradeRequest obtained from method @link
 * createUpgradeRequest(TimeoutHandler).
 */

interface ClientUpgradeInfo {

/**
 * Get @link ClientUpgradeStatus.
 *
 * @return @link ClientUpgradeStatus.
 */
 ClientUpgradeStatus getUpgradeStatus();

/**
 * Create new @link Connection when @link getUpgradeStatus() returns @link

**ClientUpgradeStatus#SUCCESS**

* @return new [@link Connection} instance or [@code null}, when [@link #getUpgradeStatus] does not return

* [@link ClientUpgradeStatus] .

*/

Connection createConnection();

/**
 * Status of upgrade process.
 *<p>
 * Returned by [@link processResponse(UpgradeResponse, Writer, Connection.CloseListener)] .
 */

enum ClientUpgradeStatus {

  /**
   * Client engine needs to send another request.
   *
   * @see createUpgradeRequest(TimeoutHandler)
   */

  ANOTHER_UPGRADE_REQUEST_REQUIRED,

  /**
   * Upgrade process failed.
   */

  UPGRADE_REQUEST_FAILED,

  /**
   * Upgrade process was successful.
   *
   * @see ClientUpgradeInfo#createConnection()
   */

  SUCCESS
  }

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### 3.165 vjdbc 1.6.5

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http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/

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3.169 yui 3.3.0

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3.170 yui 2.9.0

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3.171 zmq 3.1

4.1 @babel/helper-module-imports 7.0.0

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4.2 @babel/runtime 7.4.4

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4.3 @babel/types 7.4.4

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4.4 @emotion/babel-utils 0.6.10

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4.5 @emotion/cache 10.0.9

4.6 @emotion/hash 0.6.6

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4.7 @emotion/memoize 0.6.6

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4.8 @emotion/serialize 0.9.1

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4.9 @emotion/sheet 0.9.2

4.10 @emotion/stylis 0.7.1

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4.11 @emotion/unitless 0.6.7

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4.12 @emotion/utils 0.8.2

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4.13 @emotion/weak-memoize 0.2.2

4.14 abbrev 1.1.1

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4.15 abortcontroller-polyfill 1.3.0
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4.16 ajv 6.10.0
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4.17 argparse 1.0.10

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4.18 asap 2.0.6
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4.19 autosize 4.0.2

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4.20 babel-plugin-emotion 9.2.11

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4.21 babel-plugin-macros 2.5.1

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4.22 babel-plugin-syntax-jsx 6.18.0

4.23 babel-runtime 6.26.0

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4.24 bem-cn 2.1.3

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4.27 caller-path 2.0.0

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4.29 classnames 2.2.6

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4.30 clsx 1.0.4

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4.40 define-properties 1.1.3

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4.94 memoize-one 5.0.4

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4.107 path-to-regexp 1.7.0

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4.108 performance-now 2.1.0

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4.121 react-dom 16.8.6

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4.126 react-lifecycles-compat 3.0.4

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4.127 react-notification 6.8.4

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4.128 react-onclickoutside 6.8.0

4.129 react-popper 1.3.3

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4.130 react-redux 7.0.3

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4.131 react-router 5.0.0

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4.132 react-router-dom 5.0.0

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4.137 redux 4.0.1

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4.153 symbol-observable 1.2.0

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4.163 uri-js 4.2.2

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4.167 warning 4.0.3

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4.168 whatwg-fetch 3.0.0

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4.171 yup 0.27.0

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5.2 @babel/runtime 7.4.4

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5.3 @babel/runtime-corejs2 7.2.0

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5.5 @emotion/babel-utils 0.6.10

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5.13 @types/prop-types 15.5.6

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5.14 @types/react 16.7.13

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5.16 amqp-client 3.6.6

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5.17 antlr4 4.5.3

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5.18 argparse 1.0.10

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5.21 babel-plugin-emotion 9.2.11

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5.22 babel-plugin-macros 2.4.2

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5.23 babel-plugin-syntax-jsx 6.18.0

5.24 babel-runtime 6.26.0

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## 5.27 bootstrap 4.0.0-alpha.5

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5.32 commons-beanutils 1.9.2

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5.58 es6-promise 4.0.5

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5.59 eslint 3.19.0

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5.78 HttpCore 4.3.2

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5.111 jaxb2-basics-runtime 0.6.5

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5.112 jedis 2.9.0

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5.113 jest-docblock 21.2.0

5.114 joda-time 2.9.2

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5.123 lodash-es 4.17.11

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5.124 log4j-api 2.5

5.125 log4j-core 2.5

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5.148 qs 6.3.0

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5.150 raf 3.4.1

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5.153 react-bootstrap 0.32.4

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5.154 react-dimensions 1.1.1

5.155 react-dom 16.6.3

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5.162 react-lifecycles-compat 3.0.4

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5.175 regenerator-runtime 0.12.1

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5.186 scroll-into-view 1.7.1

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5.187 setimmediate 1.0.5

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5.189 snakeyaml 1.23

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5.192 spring-core 4.1.4.RELEASE

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5.201 symbol-observable 1.2.0

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5.204 topo 2.0.2

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5.206 truncate-utf8-bytes 1.0.2

5.207 tslib 1.9.3

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5.208 ua-parser-js 0.7.19

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5.211 utf8-byte-length 1.0.4

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5.215 whatwg-fetch 2.0.1

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6.2 aes 16-04-07
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Issue 16/04/2007

6.3 Algorithm-Diff 1.1902

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The End

6.4 apache2 2.4.38

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/*

*************************************************************************/
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                           =============

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
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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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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-2.1-1ns)
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
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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

That's great!

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

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ns)
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
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. :-)

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

John
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

6.14 beecrypt 3.1.0
6.14.1 Available under license:

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6.16 Berkely_DB 4.2.52

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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 3a0982da308228d796df35f98d787c5c2f2bb5bb6.

   Author: Julio Merino <jmmv@NetBSD.org>

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

   Author: Julio Merino <jmmv84@gmail.com>

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

   Author: Julio Merino <jmmv84@gmail.com>

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

6.18 binutils 2.25.1
6.18.1 Available under license:

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

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

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

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.
Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

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

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

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

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

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@enumerate
@item
The modified work must itself be a software library.

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

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

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

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

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

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.

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
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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.

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:

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
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That's all there is to it!
(This file is under construction.)*- text -*.

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

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
file, as requested by the FSF.
Dean Elsner wrote the original gas for vax. [more details?]

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.
John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.
Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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6.19 boost 1_64_0

6.19.1 Available under license:
All the value based traits in this library conform to MPL’s requirements for an Integral Constant type.

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](http://www.boost.org/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.

```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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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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#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() { }

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Adapters for Boost.MPL containers.

```cpp
struct boost::mpl::integral_c< T, v >
```

Adapters for Boost.MPL containers.
Adapter for IntegralConstants from the Boost.MPL. 
<a href="structboost_1_1mpl_1_1integral__c.html#details">More...</a> &lt;/td&gt;&lt;/tr&gt;&lt;/table&gt;&lt;/div&gt;&lt;!-- contents --&gt;&lt;/div&gt;&lt;!-- doc-content --&gt;&lt;!-- Copyright Louis Dionne 2013-2017
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(See accompanying file LICENSE.md or copy at http://boost.org/LICENSE_1_0.txt)&lt;!-- boost-no-inspect --&gt;&lt;!-- HTML footer for doxygen 1.8.9.1--&gt;&lt;!-- start footer part --&gt;&lt;div id="nav-path" class="navpath"&gt;&lt;!-- id is needed for treeview function! --&gt;&lt;ul&gt;&lt;/ul&gt;&lt;/div&gt;&lt;/div&gt;&lt;/body&gt;&lt;/html&gt;&lt;var group__group_ext_mpl =

[ [ "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
  [ "list", "structboost_1_1mpl_1_1llist.html", null ],
  [ "vector", "structboost_1_1mpl_1_1lvector.html", null ]
];
#!/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',

}
for line in log.splitlines():
    author, date = line.split('t')
    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}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + 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'^\W*\(c\)? copyright\(c\)? \d{4}(\s*--\s*\d{4})? \s+(\s*\)?\s*(\W*)\s*\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 len(prefix), prefix
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                new_line = next(new)
            else:
                new_line = line
            f.write(new_line)
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)

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[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "+//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xsi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
<year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
[article Copyright Test
[quickbook 1.5]
[copyright 1977,1985 Someone else]
]
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
/
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* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
* *
* /

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
```cpp
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

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

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

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

void bcp_implementation::output_license_info()
{
  std::pair<const license_info*, int> licenses = get_licenses();

  std::map<int, license_data>::const_iterator i, j;
  i = m_license_data.begin();
  j = m_license_data.end();

  std::ofstream os(m_dest_path.string().c_str());
  if(!os)
  {
    return;
  }
```

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

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

os <<
   "</H1>
"
"<H2>Contents</h2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>
    os << "<a href="#details">Licence Details</a>
while(i != j)
{
   // title:
   os << " <A href="#" "make_link_target(licenses.first[i->first].license_name)" ""/>
   "" "licenses.first[i->first].license_name << "</a>
   ++i;
}

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)
{ os <<
   "Moving to the Boost Software License...
   " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
}
<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>

"Files that can NOT be moved to the Boost Software License"

"Authors we need to move to the Boost Software License"

"Copyright Holder Information"

"File Dependency Information"

"Input Information:

The following files were scanned for boost dependencies:

The Boost path was: " << m_boost_path.string() << "

The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "\n";

The Boost path was: " << m_boost_path.string() << "

The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "\n";

// 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");

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

i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
 // title:
 os << "<H3><A name="" >> make_link_target(licenses.first[i->first].license_name) << ""/></A>" << licenses.first[i->first].license_name << "</H3>\n";
 // license text:
 os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
 if(!m_bsl_summary_mode || (license_index >= 3))
 {
 // Copyright holders:
 os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:";
 x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
 os << *x << "<BR>\n";
 ++x;
}
Files using this license:

This license applies to the following files:

This license is used by authors (list omitted for brevity).

This license applies to files (list omitted for brevity).

Output list of files not found to be under license control:

Files With No Recognisable Licence

The following files had no recognisable license information:

Output list of files with no found copyright holder:

Files With No Recognisable Copyright Holder

The following files had no recognisable copyright holder:
// Output list of files that have been moved over to the Boost Software License, along with enough information for human verification.

// Output list of files that can be automatically converted to the Boost Software License

// Output list of files that could be moved over to the Boost Software License

// Output list of files that can not be moved over to the Boost Software License
Files that can NOT be converted to the Boost Software License:

The following files cannot be converted to the Boost Software License because we need the permission of more authors:

```

// Output list of authors that need permission for the BSL

// output a table of copyright information:

// 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);
    }

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

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

This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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/\ 
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//
//
///////////////////////////////////////////////////////////////////////////////

#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/mpl.hpp>
#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

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;

```
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);  }
};

#include <boost/container/detail/config_end.hpp>
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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//
//
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# define BOOST_INTERPROCESS_DETAIL_MPL_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;
};

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;
};

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

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP

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

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

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#define 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);
};
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, typename DefaultType>                    \
    struct boost_intrusive_default_type_ ## TNAME                 \
    {
        template <typename X>                                       \
        static char test(int, typename X::TNAME*);                  \
        \
        template <typename X>                                       \
        static int test(...);                                       \
        \
        struct DefaultWrap { typedef DefaultType TNAME; };          \
        \
        static const bool value = (1 == sizeof(test<T>(0, 0)));     \
        \
        typedef typename                                            \
            ::boost::intrusive::detail::if_c                         \
            <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_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 DefaultType TNAME; };          \
        \
        static const bool value = (1 == sizeof(test<T>(0, 0)));     \
        \
        typedef typename                                            \
            ::boost::intrusive::detail::if_c                         \
            <value, T, DefaultWrap>::type::TNAME type;            \
    };                                                             \
//
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 <class T>
 struct TRAITS_PREFIX##_bool
 { \
  template<bool Add>
   struct two_or_three {yes_type _[2 + Add];};
  template <class U> static yes_type test(...);
  template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
  static const std::size_t value = sizeof(test<T>(0));
  }
 \
  template <class 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_IGNORE_SIGNATURE(TRAITS_NAME, 
FUNC_NAME) 
\ 
template <typename Type, class> \
struct TRAITS_NAME \
  : public TRAITS_NAME##_ignore_signature<Type> 
{ }; \
//
} //namespace detail
} //namespace intrusive
} //namespace boost
#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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

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6.23 bzip2 1.0.6

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Julian Seward, Cambridge, UK.
jsward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*
  minibz2
  libbz2.dll test program.
  by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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  usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]
*/

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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.

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

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

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6.25 cairo 1.7.4
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6.26 Carp-Clan 6.04
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Package "Carp::Clan"

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Abstract:
-------

This module reports errors from the perspective of the caller of a "clan" of modules, similar to "Carp.pm" itself. But instead of giving it a number of levels to skip on the calling stack, you give it a pattern to characterize the package names of the "clan" of modules which shall never be blamed for any error. :-)

So these modules stick together like a "clan" and any error which occurs will be blamed on the "outsider" script or modules not belonging to this "clan".

What's new in this release:
--------------------------

+ Solved RT ticket #50796 (inform type of license)
+ Made the test suite compatible with Perl versions < v5.6.0

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

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Prerequisites:
------------

Perl version 5.005_03 or higher.

(Should probably also work with older versions of Perl, however.)
Installation:
-------------

As usual:

perl Makefile.PL
make
test
install

Changes over previous versions:
-------------------------------

Please refer to the file "Changes" in this distribution for a more
detailed version history log.

What does it do:
-----------------

This module is based on "Carp.pm" from Perl 5.005_03. It
has been modified to skip all package names matching the
pattern given in the "use" statement inside the "qw()" term (or argument list).

Suppose you have a family of modules or classes named
"Pack::A", "Pack::B" and so on, and each of them uses
"Carp::Clan qw(^Pack::);" (or at least the one in which
the error or warning gets raised).

Thus when for example your script "tool.pl" calls module
"Pack::A", and module "Pack::A" calls module "Pack::B", an
exception raised in module "Pack::B" will appear to have originated in "tool.pl" where "Pack::A" was called, and
not in "Pack::A" where "Pack::B" was called, as the
unmodified "Carp.pm" would try to make you believe :-).

This works similarly if "Pack::B" calls "Pack::C" where
the exception is raised, etcetera.

In other words, this blames all errors in the "Pack::*"
modules on the user of these modules, i.e., on you. ;-)
where these modules are not classes derived from each other (and thus when examining "@ISA" - as in the original "Carp.pm" module - doesn't help).

The purpose and advantage of this is that a "clan" of modules can work together (and call each other) and throw exceptions at various depths down the calling hierarchy and still appear as a monolithic block (as though they were a single module) from the perspective of the caller.

In case you just want to ward off all error messages from the module in which you "use Carp::Clan", i.e., if you want to make all error messages or warnings to appear to originate from where your module was called (this is what you usually used to "use Carp;" for ;-) ), instead of in your module itself (which is what you can do with a "die" or "warn" anyway), you do not need to provide a pattern, the module will automatically provide the correct one for you.

I.e., just "use Carp::Clan;" without any arguments and call "carp" or "croak" as appropriate, and they will automatically defend your module against all blames!

In other words, a pattern is only necessary if you want to make several modules (more than one) work together and appear as though they were only one.

Contact Authors:
----------------
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http://www.engelschall.com/u/sb/download/

6.27 CGI-Session 4.42
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6.28 CGI.pm 4.40

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6.29 cifs-mount 1.7

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6.30 ciscosafec 4.0.37 :4

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6.31 Class-Accessor 0.34

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6.32 Class-Data-Inheritable 0.08

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6.33 Class-ErrorHandler 0.01

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version: 0.01
abstract: Base class for error handling
author: Benjamin Trott <cpan@stupidfool.org>
license: perl
distribution_type: module
no_index:
directory:
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<signature of Ty Coon>, 1 April 1989
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<snip>

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

That's all there is to it!

6.36 Class-Singleton 1.4
6.36.1 Available under license:
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    at assemblers) written by James Hacker.

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

That's all there is to it!
6.37 Class-Std-Utils 0.0.3

6.38 Class-XPath 1.4

6.38.1 Available under license :
from README...

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\verbatim
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tinyrl/vt100

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\section _tinyxml Yves Berquin
As of release 0.6 the tinyxml library is included (unchanged) as part of the
distribution.
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tinyxml (v2.5.1)
(endverbatim)
http://www.sourceforge.net/projects/tinyxml
Original file by Yves Berquin.

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The Binary File Descriptor library is part of GNU binutils
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lub/heap/posix/heap_symShow.c
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6.41 Compress-Zlib 2.015

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6.42 ConcurrentLogHandler 0.9.1

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6.43 Config-Crontab 1.3

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That's all there is to it!
from /Config-Crontab-1.30/Crontab.pm

<snip>

=head1 AUTHOR

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=cut

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6.45 Convert-ASCII-Armour 1.4

6.45.1 Available under license:

#!/usr/bin/perl -sw
#
## Makefile.PL for Conver::ASCII::Armour
##
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<one line to give the program's name and a brief idea of what it does.>
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when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

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commands you use may be called something other than 'show w' and 'show
c'; they could even be mouse-clicks or menu items--whatever suits your
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program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!

6.46 Convert-ASN1 0.22

6.46.1 Available under license:

I consider Convert::ASN1 a replacement for my earlier Convert::BER
module. While ASN1.pm is not as flexible as BER.pm, because PDUs must
be described up front, it is also more powerful. For example an LDAP
filter is a recursive structure, BER.pm cannot encode or decode this in
a single pass, ASN1.pm can.

Convert::ASN1 will parse ASN.1 descriptions and will encode from and
decode to perl data structures using a hierarchy of references.

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The latest release is available from CPAN

http://search.cpan.org/author/GBARR/Convert-ASN1

INSTALL
To install run these commands, substituting x.xx for the version number that you have downloaded

gunzip Convert-ASN1-x.xx.tar.gz
tar xvf Convert-ASN1-x.xx.tar
cd Convert-ASN1-x.xx
perl Makefile.PL
make
make test
make install

REPORTING BUGS

If you find any bugs with Convert::ASN1, please report them via

bugs-Convert-ASN1@rt.cpan.org

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<one line to give the program's name and a brief idea of what it does.>
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    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

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

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6.47 Convert-PEM 0.07
6.47.1 Available under license:
  from /lib/Convert/PEM.pm

<snip>
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Benjamin Trott, ben@rhumba.pair.com

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

That's all there is to it!

6.48 coreutils 8.22
6.48.1 Available under license :

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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
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<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands 'show w' and 'show c' should show the appropriate 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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**6.49 cpio 2.4.2.91**

**6.49.1 Available under license:**

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   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

<one line to give the program's name and a brief idea of what it does.>
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This program is free software; you can redistribute it and/or modify
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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

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

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

Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work 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
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distribute.

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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 scannersv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
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   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
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   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id I1cOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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

6.51 cronie 1.2

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### 6.53 Crypt-CBC 2.33

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6.55 Crypt-DES 2.05
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6.56 Crypt-DES_EDE3 0.01

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6.59 Crypt-OpenSSL-AES 0.02

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6.61 Crypt-OpenSSL-X509 1.804

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=cut

6.62 Crypt-PasswdMD5 1.3
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from PasswdMD5.pm

#
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6.64.1 Available under license:
from META.yml

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

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That's all there is to it!
6.66 curl 7.62.0

6.66.1 Available under license:

License Mixing
===============

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

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

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

### libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

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

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

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

## Heimdal

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## GNU GSS

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

## libssh2

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

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6.67 Cython 0.28.5

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Fernando Perez began IPython in 2001 based on code from Janko Hauser <jhauser@zscout.de> and Nathaniel Gray <n8gray@caltech.edu>. Fernando is still the project lead.

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**6.68 Data-Buffer 0.04**
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from Buffer.pm

<snip>

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

That's all there is to it!

## 6.69 Data-Compare 1.22

### 6.69.1 Available under license:

```
# Data::Compare - compare perl data structures
# Author: Fabien Tassin <fta@sofaway.org>
# updated by David Cantrell <david@cantrell.org.uk>
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<snip>

=head1 AUTHOR

Fabien Tassin E<lt>fta@sofaway.orgE<gt>

Portions by David Cantrell E<lt>david@cantrell.org.ukE<gt>

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<one line to give the program's name and a brief idea of what it does.>
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6.70 Data-Serializer 0.49
6.70.1 Available under license :
from README

<snip>

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

6.71 Data-UUID 1.203
6.71.1 Available under license:
from README

<snip>

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from META.yml

<snip>

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6.72 Date-Calc 6.3

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from README.txt

<snip>

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6.77 DateTime-Event-ICal 0.1

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6.79 DateTime-Locale 0.44

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from DBI.pm

<snip>

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6.85 debianutils 2.7

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6.91 Digest-MD5 2.39

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 *
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 *
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 * turn is derived from the reference implementation in RFC 1321 which
 * comes with this message:
 *
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6.92 Digest-SHA1 2.12

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name: Digest-SHA1
version: 2.12
abstract: Perl interface to the SHA-1 algorithm
author:
  - Gisle Aas <gisle@activestate.com>
license: perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
requires:
  Digest::base: 1.00
  perl: 5.004
no_index:
  directory:
    - t
    - inc
generated_by: ExtUtils::MakeMaker version 6.4801
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
repository: http://github.com/gisle/digest-sha1

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 */

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*
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  * http://cr.yp.to/ecdh.html
* djb's sample implementation of curve25519 is written in a special assembly
  * language called qhasm and uses the floating point registers.
* This is, almost, a clean room reimplementation from the curve25519 paper. It
  * uses many of the tricks described therein. Only the crecip function is taken
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* /

6.97 e1000 8.0.35

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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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6.103 efivar 0.23

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6.114 Error 0.15

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#
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#
# Based on my original Error.pm, and Exceptions.pm by Peter Seibel
# <peter@weblogic.com> and adapted by Jesse Glick <jglick@sig.bsh.com>.
#
# but modified ***significantly***

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6.115 ethtool 3.9

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6.116 ethwireck 1.2

6.116.1 Available under license:

ethwireck -- check if the wire in the Ethernet port is live

History
-------

This code is based on the code form the linuxjournal.com article about ioctl written by Lisa Corsetti. The original code can be found at:
and

I have contacted Lisa and she has confirmed to me that the license of the code is GPL.

A bit of research showed that the code is actually based on either the mii-diag tool from Donald Becker or the standard linux net-tools package. The code from Lisa uses the exact same variable names and has many other lines in common.
Despite this ethwireck offers really new functionality which is as such not available via the net-tools.

I have asked Lisa if she wants to maintain the code but she did not show any interested. Therefore this code is now maintained by me.

January 2004, Guido Socher (guido at linuxfocus.org)

Difference to mii-tool
---------------------

The functionality is similar to mii-tool however on my computer mii-tool will only produce this:
SIOCGMIIPHY on 'eth0' failed: Operation not supported

The reasons is that there are a number of incompatible methods in the various ethernet drivers and mii-tool supports only the mii-tool interface.

ethwireck supports: ethtool interface, mii-tool and the old mii-tool interface.

Installation
----------

run
make
make install
or to not install to /usr/sbin/ethwireck but to /opt you can use
make PREFIX=/opt install

Sofar I have tested ethwireck only with 2.4.x Kernels. Probably
it will also work with 2.6.x Kernels but I have not used it
on a 2.6.x Kernel.

DHCP clients
----------
There are basically two DHCP clients for Linux:
pump -- this one was originally part of redhat but is now hardly
used anymore. It is still very good and easy to use therefore
I have included the source code within this package.
dhclient -- this is a more modern but also more complicated dhcp client
You can get it from: http://www.isc.org/products/DHCP/

Copyright
---------
The copyright of the ethwireck code is GPL

I am not going to include a copy of the GPL in the package because
the GPL is a very common licence and can be found almost everywhere
on the internet. On top of that the license file would be bigger than
the source code for this program. If you don't know what GPL is then
go to www.gnu.org

Version history
---------------

Sat Jan 24 11:44:54 EST 2004, version 1.1, README file updated

Thu Apr 15 22:32:30 EST 2004, version 1.2, ebuild file for gentoo added
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    Version 2, June 1991

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6.117 EV 4.17

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6.120 expat 2.2.5

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6.122 Exporter::Tiny 0.042

6.122.1 Available under license:

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Upstream-Name: Exporter-Tiny
Upstream-Contact: Toby Inkster (TOBYINK) <tobyink@cpan.org>
Source: https://metacpan.org/release/Exporter-Tiny

Files: lib/Exporter/Shiny.pm
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

6.127 File-Monitor 1.00

6.128 File-Slurp 9999.13
6.128.1 Available under license :

File::Slurp.pm version 0.04
================================

This module provides subroutines to read or write entire files with a simple call. It also has a subroutine for reading the list of filenames in a directory.

In the extras/ directory you can read an article (slurp_article.pod) about file slurping and also run a benchmark (slurp_bench.pl) that compares many ways of slurping/spewing files.

This module was first written and owned by David Muir Sharnoff (MUIR on CPAN). I checked out his module and decided to write a new version which would be faster, and with many more features. To that end, David graciously transfered the namespace to me.

Since then, I discovered and fixed a bug in the original module's test script (which had only 7 tests), which is included now as t/original.t. This module now has 164 tests in 7 test scripts, and passes on Windows, Linux, Solaris and Mac OS X.
There have been some comments about the somewhat unusual version number. The problem was that David used a future date (2004.0904) in his version number, and the only way I could get CPAN to index my new module was to make it have a version number higher than the old one, so I chose the 9999 prefix and appended the real revision number to it.

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

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6.134 fuse 2.9.3

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David Megginson, sax@megginson.com
1998-05-11

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

import os
import re
import sys
import time
import subprocess

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

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

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

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

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

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltar.m4',
    'ltarchive.m4',
    'ltobsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'ylwrap',

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

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

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
return re.compile (r'\t')

return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
            return True

        # Skip configure files produced by autoconf
        if filename == 'configure':
            if os.path.exists (base + '.ac'):
                return True
            if os.path.exists (base + '.in'):
                return True
        return False

    def skip_dir (self, dir, subdir):
        return subdir in self.skip_dirs

    def is_fossilised_file (self, dir, filename):
        if filename in self.fossilised_files:
            return True

        # Only touch current 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.
nname = '\[\w.,-\]'

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

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

# Matches a full copyright notice:
sself.copyright_re = re.compile ('("Copyright (C)\", etc.
\("[Cc]opyright\n\("[Cc]opyright\s+\([Cc]\)\)\n\("[Cc]opyright\s+\%s\n\("[Cc]opyright\s+\&copy;\n\("[Cc]opyright\s+\@copyright\{ }\n\"copyright = u"\n\"\@set\s+copyright\[w-\]+\"\n
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
\(\s*\(?:\s+\)\s*\)?
\('[@value\{[^{}]*\})s*\'

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

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

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

# True to 'quilt add' files before changing them.
sself.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
        else:
            raise self.BadYear(string)
    else:
        raise self.BadYear(string)

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

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

def include_year(self, year):
    assert not self.max_year
    self.max_year = year
def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years

    (min_year, max_year) = self.year_range(years)

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

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

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

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

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

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '\n':
            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)
else:
    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)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
res = self.update_copyright (dir, filename, filter, 
    file, line, match)
(this_changed, line, next_line) = res
changed = changed or this_changed

# Check for copyright lines that might have slipped by.
elif self.other_copyright_re.search (line):
    self.errors.report (pathname,
        'unrecognised copyright: %s'
        % line.strip())
    lines.append (line)
    line = next_line

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

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

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

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []
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
    ' % sys.argv[0]
    for (what, help) in self.option_help:
        sys.stdout.write(format % (what, help))
    sys.stdout.write('
Directories:
    ' % sys.argv[0])
    format = '%-25s
    ' % sys.argv[0]
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len(self.dirs):
            sys.stdout.write(dir + '
    ' % sys.argv[0])
        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(['math-68881.h',])
        self.skip_dirs = set(['ada',])
        # Not part of GCC
        # Better not create a merge nightmare for the GNAT folks.
        # Handled separately.
class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        )

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

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

        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.po',
        )
class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

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

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

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
            []
        )

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

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

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',
            []
        )

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

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

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

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

    # Contains imported images
    'images',
])

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

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

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

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

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCOPYRIGHT)
        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnatools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libc++', LibCppFilter())
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'),
    TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecimal',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

 ifndef __java_security_Permission__
define __java_security_Permission__

class java::security::Permission : public ::java::lang::Object
{
    public:
        Permission(::java::lang::String *);
        virtual void checkGuard(::java::lang::Object *);
        virtual jboolean implies(::java::security::Permission *) = 0;
        virtual jboolean equals(::java::lang::Object *) = 0;
        virtual jint hashCode() = 0;
        virtual ::java::lang::String * getName();
        virtual ::java::lang::String * getActions() = 0;
        virtual ::java::security::PermissionCollection * newPermissionCollection();
        virtual ::java::lang::String * toString();
    private:
        static const jlong serialVersionUID = -563657022231596674L;
        ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
    public:
        static ::java::lang::Class class$;
};

#pragma interface
#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
        namespace security
        {
            class Permission;
            class PermissionCollection;
        }
    }
}

class java::security::Permission : public ::java::lang::Object
{
    public:
        Permission(::java::lang::String *);
        virtual void checkGuard(::java::lang::Object *);
        virtual jboolean implies(::java::security::Permission *) = 0;
        virtual jboolean equals(::java::lang::Object *) = 0;
        virtual jint hashCode() = 0;
        virtual ::java::lang::String * getName();
        virtual ::java::lang::String * getActions() = 0;
        virtual ::java::security::PermissionCollection * newPermissionCollection();
        virtual ::java::lang::String * toString();
    private:
        static const jlong serialVersionUID = -563657022231596674L;
        ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
    public:
        static ::java::lang::Class class$;
};

#pragma interface
#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
        namespace security
        {
            class Permission;
            class PermissionCollection;
        }
    }
}

class java::security::Permission : public ::java::lang::Object
{
    public:
        Permission(::java::lang::String *);
        virtual void checkGuard(::java::lang::Object *);
        virtual jboolean implies(::java::security::Permission *) = 0;
        virtual jboolean equals(::java::lang::Object *) = 0;
        virtual jint hashCode() = 0;
        virtual ::java::lang::String * getName();
        virtual ::java::lang::String * getActions() = 0;
        virtual ::java::security::PermissionCollection * newPermissionCollection();
        virtual ::java::lang::String * toString();
    private:
        static const jlong serialVersionUID = -563657022231596674L;
        ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
    public:
        static ::java::lang::Class class$;
};
namespace java {
    namespace security {
        namespace acl {
            class Permission;
        }
    }
}

class java::security::acl::Permission : public ::java::lang::Object {

    public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;

} __attribute__ ((java_interface));

#if !defined(__java_security_acl_Permission__)

    //__java_security_acl_Permission__

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import java.util.Map;

import com.sun.tools.doclets.Taglet;
import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

private static final String NAME = "copyright";
private static final String HEADER = "Copyright:";

public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
                }
            }
            result.append("</dl>");
            return result.toString();
        }
        else {
            return true;
        }
    }
}
return null;
}
}
}  
1f+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMEjava/lang/String;
ConstantValuecopyrightHEADER
Copyright:<init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewwinPackageinTypeInfoInlineTagregister(Ljava/util/Map;)V
&(*)
java/util/Map+.put8(Ljava/lang/Object;Ljava/lang/Object;Ljava/lang/Object;
tagletMapjava/util/Map;copyrightTagletToString(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Tag
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/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

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

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

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

    public void checkGuard(Object obj)
    {

    }

    public void checkGuard(Object obj)
    {

    }

    public void checkGuard(Object obj)
    {

    }
}

/*
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

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

private String name;

/**
 * Create an instance with the specified name.
 * @param name the permission name
 */

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

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 */

public void checkGuard(Object obj)
{

SecurityManager sm = System.getSecurityManager();
if (sm != null)
    sm.checkPermission(this);
}

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

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

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

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

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

public abstract String getActions();

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

public PermissionCollection newPermissionCollection()
{
    return null;
}

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

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

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
}
} // class Permission
/* Permission.java -- Information about an ACL permission
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package java.security.acl;

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

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

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David Megginson, sax@megginson.com
1998-05-11

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David Megginson, david@megginson.com
2000-05-05

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* m4/ax_func_which_gethostbyname_r.m4

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```java
ConstantValue(WQ name L java/lang/String; init(L java/lang/String;) V Code

LineNumberTableLocalVariableTable

this(L java/security/Permission; V

java/lang/System" getSecurityManager() L java/lang/SecurityManager;
%
java/lang/SecurityManager() checkPermission(L java/security/Permission;) VObject sm (L java/lang/Object; SecurityManager: implies (L java/security/Permission;) Z equals (L java/lang/Object;) Z hashCode () I

getName () L java/lang/String;

getActions newPermissionCollection () L java/security/PermissionCollection; toString () gnu/java/lang/CPStringBuilder

:-> @ append (C) L gnu/java/lang/CPStringBuilder;

BCD getClass () L java/lang/Class;

F H N65P

RTSJ java/lang/String01

V95 string L gnu/java/lang/CPStringBuilder;

SourceFilePermission.java!

F **+[]^

XM,, *$nop

q ++

-012345/*6578.9S: Y <L+=(L+*AEIL+=L+*LIL+*MOQ+=L+*MIL+=)=L+U*

*+7>GNSKWXYZ

l java/security/acl/Permission java/lang/Object equals (L java/lang/Object;) Z to String () L java/lang/String;

SourceFilePermission.java

16/gnu/javasound/AudioSecurityManager$Permission java/lang/EnumPLAY IL gnu/javasound/AudioSecurityMa

nager$Permission; RECORDALLENUM$VALUES2[gnu/javasound/AudioSecurityManager$Permission; < clin

it >() V Code

< init > (L java/lang/String; I V

LineNumberTableLocalVariableTable

this values 4] (L gnu/javasound/AudioSecurityManager$Permission;

S&% java/lang/System( arraycopy *(L java/lang/Object; I I java/lang/Object; I I) V valueOfE (L java/lang/String; ) L gnu/javasound/AudioSecurit

yManager$Permission;
```
class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
    AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
}
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

Jan 21, 2002

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

That's all there is to it!
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 (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al 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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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

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

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

#define LPREFIX "L"

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

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

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

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

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

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

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

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

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

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

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \ 
(fputs (".lcomm \", (FILE)),\ 

```c
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)\n  if ((LOG)!==0) fprintf ((FILE), "t.align %d\n", (LOG))

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

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\n  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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Version 3.1, 31 March 2009

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6.137 gcc 3.3.6

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

Ty Coon, President of Vice

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b) Use a suitable shared library mechanism for linking with the
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# BSD on the PA already has ANSI include files which are c++ compatible.
STMP_FIXPROTO=
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.
The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (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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Version 2.1, February 1999

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

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from README

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DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
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REFERENCES    Where to learn more about JPEG.
ARCHIVE LOCATIONS  Where to find newer versions of this software.
RELATED SOFTWARE  Other stuff you should get.
FILE FORMAT WARS  Software *not* to get.
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Other documentation files in the distribution are:

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

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

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

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

OVERVIEW

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding
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the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application. We have also included
"jpegtran", a utility for lossless transcoding between different JPEG
processes, and "rdjgcom" and "wrjpgcom", two simple applications for
inserting and extracting textual comments in JFIF files.

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

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright
It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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

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

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

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


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

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

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
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RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.
If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help
force convergence on common, open format standards for JPEG files. Don’t use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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6.140 gdbm 1.8.3
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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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6.145 gettext 0.19.8.1

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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End

6.149 glib-networking 2.50.0 :1
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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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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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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6.154 gmp/lgpl_areas 5.0.5

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6.155 gnu-efi 3.0.3

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6.156 gnu-efi/gplv2 3.0.3

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6.157 gnutls 3.5.19

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## version 0.1
##
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6.159 Graph 0.91

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name: Graph
version: 0.91
abstract: ~
author:
  - Jarkko Hietaniemi <jhi@iki.fi>
license: perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
requires:
  List::Util: 0
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6.160 grep 2.5.3

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my $VERSION = '2012-02-05.21:39'; # UTC

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# Written by Jim Meyering and Joel E. Denny

# The arguments to this script should be names of files that contain
# copyright statements to be updated. The copyright holder's name
# defaults to "Free Software Foundation, Inc." but may be changed to
# any other name by using the "UPDATE_COPYRIGHT_HOLDER" environment
# variable.
#
# For example, you might wish to use the update-copyright target rule
# in maint.mk from gnu.lib's maintainer-makefile module.
#
# If a copyright statement is recognized in a file and the final
# year is not the current year, then the statement is updated for the
# new year and it is reformatted to:
#
#   1. Fit within 72 columns.
#   2. Convert 2-digit years to 4-digit years by prepending "19".
#   3. Expand copyright year intervals. (See "Environment variables"
#      below.)
#
# A warning is printed for every file for which no copyright
# statement is recognized.
#
# Each file's copyright statement must be formatted correctly in
# order to be recognized. For example, each of these is fine:
#
#   Copyright @copyright{} 1990-2005, 2007-2009 Free Software
#   Foundation, Inc.
#
#   # Copyright (C) 1990-2005, 2007-2009 Free Software
#   # Foundation, Inc.
#
#   /*
#    * Copyright © 90,2005,2007-2009
#    * Free Software Foundation, Inc.
#    */
#
# However, the following format is not recognized because the line
# prefix changes after the first line:
#
#   ## Copyright (C) 1990-2005, 2007-2009 Free Software
#   # Foundation, Inc.
#
# However, any correctly formatted copyright statement following
# a non-matching copyright statements would be recognized.
#
The exact conditions that a file's copyright statement must meet to be recognized are:

1. It is the first copyright statement that meets all of the following conditions. Subsequent copyright statements are ignored.
2. Its format is "Copyright (C)", then a list of copyright years, and then the name of the copyright holder.
3. The "(C)" takes one of the following forms or is omitted entirely:
   A. (C)
   B. (c)
   C. @copyright{}
   D. ©
4. The "Copyright" appears at the beginning of a line, except that it may be prefixed by any sequence (e.g., a comment) of no more than 5 characters -- including white space.
5. If such a prefix is present, the same prefix appears at the beginning of each remaining line within the FSF copyright statement. There is one exception in order to support C-style comments: if the first line's prefix contains nothing but whitespace surrounding a "/*", then the prefix for all subsequent lines is the same as the first line's prefix except with each of "/" and possibly "*" replaced by a " ". The replacement of "*" by " " is consistent throughout all subsequent lines.
6. Blank lines, even if preceded by the prefix, do not appear within the FSF copyright statement.
7. Each copyright year is 2 or 4 digits, and years are separated by commas or dashes. Whitespace may appear after commas.

Environment variables:

1. If UPDATE_COPYRIGHT_FORCE=1, a recognized FSF copyright statement is reformatted even if it does not need updating for the new year. If unset or set to 0, only updated FSF copyright statements are reformatted.
2. If UPDATE_COPYRIGHT_USE_INTERVALS=1, every series of consecutive copyright years (such as 90, 1991, 1992-2007, 2008) in a reformatted FSF copyright statement is collapsed to a single interval (such as 1990-2008). If unset or set to 0, all existing copyright year intervals in a reformatted FSF copyright statement are expanded instead.
4. For testing purposes, you can set the assumed current year in
use strict;
use warnings;

my $copyright_re = 'Copyright';
my $circle_c_re = '(?:\[cC\]|@copyright{}|©)';
my $holder = $ENV{UPDATE_COPYRIGHT_HOLDER};
$holder ||= 'Free Software Foundation, Inc.';
my $prefix_max = 5;
my $margin = $ENV{UPDATE_COPYRIGHT_MAX_LINE_LENGTH};
!$margin || $margin !~ m/\d+$/
  && $margin = 72;

my $tab_width = 8;

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;
}

# Unless the file consistently uses "\n\n" as the EOL, use "\n" instead.
my $eol = /(?:^|[^\r])\n/ ? "\n" : "\r\n";

my $leading;
my $prefix;
my $ws_re;
my $stmt_re;
while (/(^|\n)(.{0,$prefix_max})$copyright_re/g)
{
  $leading = "$1$2";
  $prefix = $2;
  if ($prefix =~ /(^s*)\*\*(s*)$/)
  {
    $prefix =~ s/,/,;
    my $prefix_ws = $prefix;
    $prefix_ws =~ s/^\*\*$/*\*/; # Only whitespace.
    if ($prefix_ws =~ /\n\n/)
    {
      $prefix_ws =~ s/\n/\n\n/; # Only whitespace.
    }
    $prefix = $prefix_ws;
  }
}
$ws_re = '\[ \t\r\f\]\'; # \s without \n
$ws_re =
"(?:$ws_re+(?:$ws_re)\n" . quotemeta($prefix) . "\)$ws_re*";
my $holder_re = $holder;
$holder_re =~ s/\s/$ws_re/g;
my $stmt_remainder_re =
"(?:$ws_re$circle_c_re)?"
. "$ws_re(?:(?:\d\d)?\d\d(?:,$ws_re?|-))*"
. "(?:\d\d)\d\d?\d\d$ws_re$holder_re";
if (/\G$stmt_remainder_re/) {
    $stmt_re =
        quotemeta($leading) . "($copyright_re$stmt_remainder_re)";
    last;
}
if (defined $stmt_re) {
    /$stmt_re/ or die; # Should never die.
    my $stmt = $1;
    my $final_year_orig = $2;

    # Handle two-digit year numbers like "98" and "99".
    my $final_year = $final_year_orig;
    $final_year <= 99
    and $final_year += 1900;

    if ($final_year != $this_year) {
        # Update the year.
        $stmt =~ s/$final_year_orig/$final_year, $this_year/;
    }
    if ($final_year != $this_year || $ENV{'UPDATE_COPYRIGHT_FORCE'}) {
        # Normalize all whitespace including newline-prefix sequences.
        $stmt =~ s/$ws_re/ /g;

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

        # Convert 2-digit to 4-digit years.
        $stmt =~ s/(\d\d)\d\d/19$1/g;

        # Make the use of intervals consistent.
        if (!$ENV{UPDATE_COPYRIGHT_USE_INTERVALS}) {
            $stmt =~ s/(\d\d\d\d)/(\d\d\d\d)/19$1\$/g;
            $stmt =~ s/(\d\d\d\d)/(\d\d\d\d)/19$1\$/g;
            $stmt =~ s/(\d\d\d\d)/(\d\d\d\d)/19$1\$/g;
            $stmt =~ s/(\d\d\d\d)/(\d\d\d\d)/19$1\$/g;
            }
else
{
    $stmt =~ s/(\d{4})\((?: \[\S\]+\])+$/$1-$3/gx;

    # When it's 2, emit a single range encompassing all year numbers.
    $ENV{UPDATE_COPYRIGHT_USE_INTERVALS} == 2
    and $stmt =~ s/\b(\d{4})\b.*\b(\d{4})\b/$1-$2/;
}

# Format within margin.
my $stmt_wrapped;
my $text_margin = $margin - length($prefix);
if ($prefix =~ /^\(\t+\)\)/
{
    $text_margin -= length($1) * ($tab_width - 1);
}
while (length $stmt)
{
    if (($stmt =~ s/^(.{1,$text_margin})(?: \|$)//) || ($stmt =~ s/^([\S]+)(?: \|$)//))
    {
        my $line = $1;
        $stmt_wrapped .= $stmt_wrapped ? "$eol$prefix" : $leading;
        $stmt_wrapped .= $line;
    }
    else
    {
        # Should be unreachable, but we don't want an infinite
        # loop if it can be reached.
        die;
    }
}

# Replace the old copyright statement.
s/$stmt_re/$stmt_wrapped/;
}
else
{
    print STDERR "$ARGV: warning: copyright statement not found\n";
}

# Local variables:
# mode: perl
# indent-tabs-mode: nil
# eval: (add-hook 'write-file-hooks 'time-stamp)
# time-stamp-start: "my $VERSION = "
# time-stamp-format: "%:y-%02m-%02d.%02H:%02M"
# time-stamp-time-zone: "UTC"
# time-stamp-end: "; # UTC"
# End:

6.163 hd2u 1.0.3

6.163.1 Available under license:

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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1989
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6.164 Heap 0.8

6.164.1 Available under license:

Heap routines...

This is a collection of routines for managing a heap data structure.

There are two major components: a heap component, and an element component.

A heap package basically keeps a collection of elements and is able to return the smallest one.

The heap component interface is defined in Heap(3) and must be supported by all heap packages. Currently there are three heap components provided:

Heap::Fibonacci (the preferred one)
Heap::Binomial
Heap::Binary

See the book "Algorithms" by Cormen, Leiserson, and Rivest for details of the three heap packages.
The element package wraps the data that is to be stored and retrieved on the heap. You can inherit from the Heap::Elem object to embed element capability into your own objects, or you can use the provided objects to embed your data into elements without having to specifically design your dat for that purpose. The Heap::Elem(3) module provides a detailed description of the requirements of an element module. (The main ones are that it must provide a cmp method so that the elements can be ordered, and it must provide a heap method that will either store or retrieve a scalar value so that the heap routines can map an element reference into its position within the heap.

Version 0.70 was used for the graph routines in the book "Mastering Algorithms with Perl", and there has been some feedback from users, which indicates that it is not too rough around the edges.

Comments to:

John Macdonald <john@perlwolf.com>

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The End

6.166 HOP-Stream 0.03
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<snip>

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6.167 HTML-HTMLDoc 0.1

6.167.1 Available under license:

HTML/HTMLDoc version 0.01

This module is an Perl OO-interface to the HTMLDOC commandline-tool available from http://www.easysw.com/htmldoc. It can be used for easily creating PDF and PS documents from HTML-Documents.

The module tries to be easy to use. It is possible to send the PDF-output directly to a browser in a web-environment or to save it to a file.

If you use this module in mod_perl-environment, be careful because there are problems using IPC::Open3 with mod_perl. See the pod for an other way of this module to generate the PDF without using IPC::Open3.

Example of use:

use HTML::HTMLDoc();
my $htmldoc = new HTML::HTMLDoc();
$htmldoc->set_html_content($html);
my $pdf = $htmldoc->generate_pdf();

# output the generated pdf to a web-browser:
# send the correct header to the client
print "Content-type:application/pdf\n\n";
print $pdf->to_string();

# or save the pdf to file
$pdf->to_file('foo.pdf');

LIMITATIONS

HTMLDOC CURRENTLY ONLY SUPPORTS HTML 3.2 AND DOES NOT SUPPORT STYLE SHEETS!

Please read the documentation of HTMLDOC

Currently this module has only be tested under Linux. Any Unix that is supported
Open Source Used In Firepower 6.5

by HTMLDOC should be no problem.

Please let me know of problems.

INSTALLATION

Install HTMLDOC first. See dependencies-section. If you want to use this on a webservice, you possibly want to disable the gui of HTMLDOC at configure.

To install this module type the following:

perl Makefile.PL
make
make test
make install

DEPENDENCIES

This module requires these other modules and libraries:

HTMLDOC programm available on http://www.easysw.com/htmldoc

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

6.168 HTML-Parser 3.64
6.168.1 Available under license :

from META.yml

    <snip>

    license: perl

    <snip>

from Parser.xs

/*
 * Copyright 1999-2009, Gisle Aas.
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(signature of Ty Coon), 1 April 1989
Ty Coon, President of Vice

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6.169 HTML-Tagset 3.20 :DUPLICATE
6.169.1 Available under license :
from README

<snip>

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<signature of Ty Coon>, 1 April 1989
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6.170 HTML-Template 2.9

6.170.1 Available under license:
from README

<snip>

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6.171 HTML-TokeParser-Simple 3.15
6.171.1 Available under license:

---

name: HTML-TokeParser-Simple
version: 3.15
author:
- Curtis "Ovid" Poe <ovid@cpan.org>
abstract: Easy to use C<HTML::TokeParser> interface
license: perl
resources:
  license: http://dev.perl.org/licenses/
requires:
  HTML::Parser: 3.25
  HTML::TokeParser: 2.24
  Sub::Override: 0
  Test::More: 0
provides:
  HTML::TokeParser::Simple:
    file: lib/HTML/TokeParser/Simple.pm
    version: 3.15
  HTML::TokeParser::Simple::Token:
    file: lib/HTML/TokeParser/Simple/Token.pm
    version: 3.0
  HTML::TokeParser::Simple::Token::Comment:
    file: lib/HTML/TokeParser/Simple/Token/Comment.pm
    version: 1.0
  HTML::TokeParser::Simple::Token::Declaration:
    file: lib/HTML/TokeParser/Simple/Token/Declaration.pm
    version: 1.0
  HTML::TokeParser::Simple::Token::ProcessInstruction:
    file: lib/HTML/TokeParser/Simple/Token/ProcessInstruction.pm
    version: 2.0
  HTML::TokeParser::Simple::Token::Tag:
    file: lib/HTML/TokeParser/Simple/Token/Tag.pm
    version: 1.2
  HTML::TokeParser::Simple::Token::Tag::End:
    file: lib/HTML/TokeParser/Simple/Token/Tag/End.pm
    version: 1.0
  HTML::TokeParser::Simple::Token::Tag::Start:
    file: lib/HTML/TokeParser/Simple/Token/Tag/Start.pm
    version: 1.0
  HTML::TokeParser::Simple::Token::Text:
    file: lib/HTML/TokeParser/Simple/Token/Text.pm
    version: 1.0
generated_by: Module::Build version 0.2703
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.2.html
  version: 1.2
HTML/TokeParser/Simple version 1.2
=================================

HTML::TokeParser::Simple is a subclass of HTML::TokeParser that uses easy-to-remember method calls to work with the tokens. Rather than try to remember a bunch of array indices or try to write a bunch of constants for them, you can now do something like:

$token->is_start_tag( 'form' )

Instead of

$token->[0] eq 'S' and $token->[1] eq 'form'

INSTALLATION

To install this module type the following:

perl Makefile.PL
  make
  make test
  make install

DEPENDENCIES

This module requires these other modules and libraries:

HTML::TokeParser 3.25

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```
printf("%s",png_get_copyright(NULL));
```

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glennrp@users.sourceforge.net
September 12, 2004
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* libpng versions 0.97, January 1998, through 1.2.7 - September 12, 2004: Glenn
* See also "Contributing Authors", below.
*
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*
* Due to various miscommunications, unforeseen code incompatibilities
* and occasional factors outside the authors' control, version numbering
* on the library has not always been consistent and straightforward.
* The following table summarizes matters since version 0.89c, which was
* the first widely used release:
*
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* Henceforth the source version will match the shared-library major and minor numbers; the shared-library major version number will be used for changes in backward compatibility, as it is intended. The PNG_LIBPNG_VER macro, which is not used within libpng but is available for applications, is an unsigned integer of the form xyyzz corresponding to the source version x.y.z (leading zeros in y and z). Beta versions were given the previous public release number plus a letter, until version 1.0.6j; from then on they were given the upcoming public release number plus "betaNN" or "rcN".

* Binary incompatibility exists only when applications make direct access to the info_ptr or png_ptr members through png.h, and the compiled application is loaded with a different version of the library.

* DLLNUM will change each time there are forward or backward changes in binary compatibility (e.g., when a new feature is added).

* See libpng.txt or libpng.3 for more information. The PNG specification is available as a W3C Recommendation and as an ISO Specification, <http://www.w3.org/TR/2003/REC-PNG-20031110/>

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6.174 ifenslave 1.1.0

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---
abstract: 'Object interface for AF_INET|AF_INET6 domain sockets'
author:
- "This program is based on L<IO::Socket::INET> by Graham Barr
  <gbarr@pobox.com> and currently maintained by the Perl Porters."
- "Modified by Rafael Martinez Torres <rafael.martinez@novagnet.com> and
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build_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.36
dynamic_config: 1
generated_by: 'Module::Build version 0.38, CPAN::Meta::Converter version 2.112621'
keywords:
- inet6
- input
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- network
- networking
- output
- socket
- sockets
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: IO-Socket-INET6
provides:
  IO::Socket::INET6:
    file: lib/IO/Socket/INET6.pm
    version: 2.69
requires:
  Carp: 0
  Errno: 0
IO::Socket::INET6 provides an object interface to creating and using sockets in both AF_INET|AF_INET6 domain. It is built upon the IO::Socket interface and inherits all the methods defined by IO::Socket.

WARNING: You should use this module mainly to program IPv6 domain. Most probably future releases will not support AF_INET | AF_UNSPEC options, as the module seems to fail on some given corner cases. If you require IPv4, you are encouraged to use IO::Socket::INET from the application level. Be warned.

2. Install
% perl Makefile.PL
% make
% make test
# make install

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6.180 IO-Socket-IP 0.31

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<snip>
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<snip>
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6.182 IO-String 1.08

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Installation as usual:

perl Makefile.PL
make
make test
make install

Documentation is embedded in the module.

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6.183 IO-Tty 1.08
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<snip>

/*
 * The following pty-allocation code was heavily inspired by its
 * counterparts in openssh 3.0p1 and Xemacs 21.4.5 but is a complete
 * rewrite by me, Roland Giersig <RGiersig@cpan.org>.
 * Nevertheless my references to Tatu Ylonen <ylo@cs.hut.fi>
 * and the Xemacs development team for their inspiring code.
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 * /

<snip>

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 */

<snip>
/* from $OpenBSD: strlcpy.c,v 1.5 2001/05/13 15:40:16 deraadt Exp */

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 */

<snip>
<snip>

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Originally by Graham Barr <gbarr@pobox.com>, based on the
Ptty module by Nick Ing-Simmons <nik@tiuk.ti.com>.

Now maintained and heavily rewritten by Roland Giersig
E<lt>RGiersig@cpan.org>E<gt>.

Contains copyrighted stuff from openssh v3.0p1, authored by Tatu
Ylonen <ylo@cs.hut.fi>, Markus Friedl and Todd C. Miller
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*
* Using the InterNet Control Message Protocol (ICMP) "ECHO" facility,
* measure round-trip-delays and packet loss across network paths.
*
* Author -
*Mike Muuss
*U. S. Army Ballistic Research Laboratory
*December, 1983
*
* Status -
* Bugs -
*More statistics could always be gathered.
*This program has to run SUID to ROOT to access the ICMP socket.
*/

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6.192 jansson 2.7

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6.193 Jcode 2.07

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6.194 jpeg v6b

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This makes it impossible to quote backslashes using

```
# echo "$something" | sed 's/\\\\/\\\\g'
```

So, we emulate echo with printf '%s
'

```
echo="printf %s\n"
```

if test "X'($echo ' 2>/dev/null')" = 'X\n'; then :
else
  # Oops. We have no working printf. Try to find a not-so-buggy echo.
  echo=echo
  IFS="${IFS= }"; save_ifs="IFS"; IFS="${IFS}:
  for dir in $PATH /usr/ucb; do
    if test -f $dir/echo && test "X'$dir/echo ' 2>/dev/null'" = 'X\n'; then
      echo="$dir/echo"
      break
    fi
  done
  IFS="$save_ifs"
fii

# Sed substitution that helps us do robust quoting. It backslashifies metacharacters that are still active within double-quoted strings.

```
Xsed='sed -e s/^X//'
```

```
sed_quote_subst='s/\(\["'\\\]\)/\\1/g'
```

# Same as above, but do not quote variable references.

double_quote_subst='s/\(\["'\\\]\)/\\1/g'

# The name of this program.

```
proname="$echo "X$0" | $Xsed -e 's%^.*%\%'
```

# Constants:

```
PROGRAM=ltconfig
PACKAGE=libtool
VERSION=1.2
ac_compile='${CC-cc} -c $CFLAGS $CPPFLAGS conftest.c 1>&5'
ac_link='${CC-cc} -o conftest $CFLAGS $CPPFLAGS $LDFLAGS conftest.c $LIBS 1>&5'
rm="rm -f"
```

help="'Try \$proname --help' for more information."

# Global variables:

can_build_shared=yes
enable_shared=yes
# All known linkers require a `.a' archive for static linking.
enable_static=yes
ltmain=
silent=
srcdir=

ac_config_guess=
ac_config_sub=
host=
nonopt=
verify_host=yes
with_gcc=no
with_gnu_ld=no

old_AR="$AR"
old_CC="$CC"
old_CFLAGS="$CFLAGS"
old_CPPFLAGS="$CPPFLAGS"
old_LD="$LD"
old_LN_S="$LN_S"
old_NM="$NM"
old_RANLIB="$RANLIB"

# Parse the command line options.
args=
prev=
for option
do
case "$option" in
  -*=*) optarg='echo "$option" | sed 's/\[-_a-zA-Z0-9]*=//'' ;;
  *) optarg= ;;
esac

# If the previous option needs an argument, assign it.
if test -n "$prev"; then
eval "$prev="$option"
prev=
continue
fi

case "$option" in
  --help) cat <<EOM
Usage: $progname [OPTION]... LTMAIN [HOST]" LTMAIN [HOST]

Generate a system-specific libtool script.

  --disable-shared    do not build shared libraries
  --disable-static    do not build static libraries
  --help              display this help and exit
  --no-verify         do not verify that HOST is a valid host type
  --quiet             same as --silent
  --silent            do not print informational messages
  --srcdir=DIR        find \config.guess’ in DIR
  --version           output version information and exit
--with-gcc assume that the GNU C compiler will be used
--with-gnu-ld assume that the C compiler uses the GNU linker

LTMAIN is the \ltmain.sh' shell script fragment that provides basic libtool functionality.

HOST is the canonical host system name [default=guesed].
EOM
exit 0
;;
--disable-shared) enable_shared=no ;;

--disable-static) enable_static=no ;;

--quiet | --silent) silent=yes ;;

--srcdir) prev=srcdir ;;
--srcdir=*) srcdir="$optarg" ;;

--no-verify) verify_host=no ;;

--version) echo "$PROGRAM (GNU $PACKAGE) $VERSION"; exit 0 ;;

--with-gcc) with_gcc=yes ;;
--with-gnu-ld) with_gnu_ld=yes ;;

*)
echo "$prognamed: unrecognized option \$option" 1>&2
echo "$help" 1>&2
exit 1
;;

*)
if test -z "$ltmain"; then
    ltmain="\$option"
elif test -z "$host"; then
    # This generates an unnecessary warning for sparc-sun-solaris4.1.3_U1
    # if test -n "echo "$option" sed 's/[a-z0-9.][a-z0-9.]/g'"; then
    #    echo "$prognamed: warning "$option'' is not a valid host type" 1>&2
    # fi
    host="$option"
else
    echo "$prognamed: too many arguments" 1>&2
    echo "$help" 1>&2
    exit 1
fi ;;
esac
done

if test -z "$ltmain"; then
  echo "$proname: you must specify a LTMAIN file" 1>&2
  echo "$help" 1>&2
  exit 1
fi

if test -f "$ltmain"; then :
else
  echo "$proname: '$ltmain' does not exist" 1>&2
  echo "$help" 1>&2
  exit 1
fi

# Quote any args containing shell metacharacters.
ltconfig_args=
for arg
  do
    case "$arg" in
      *"*|*"*|*"*
    ltconfig_args="$ltconfig_args $arg" ;;
    *) ltconfig_args="$ltconfig_args $arg" ;;
esac
  done

# A relevant subset of AC_INIT.

# File descriptor usage:
# 0 standard input
# 1 file creation
# 2 errors and warnings
# 3 some systems may open it to /dev/tty
# 4 used on the Kubota Titan
# 5 compiler messages saved in config.log
# 6 checking for... messages and results
if test "$silent" = yes; then
  exec 6>/dev/null
else
  exec 6>&1
fi
exec 5>>./config.log

# NLS nuisances.
# Only set LANG and LC_ALL to C if already set.
# These must not be set unconditionally because not all systems understand
# e.g. LANG=C (notably SCO).
if test "$[LC_ALL+set]" = set; then LC_ALL=C; export LC_ALL; fi
if test "${LANG+set}" = set; then LANG=C; export LANG; fi
if (echo "testing\c"; echo 1,2,3) | grep c >/dev/null; then
# Stardent Vistra SVR4 grep lacks -e, says ghazi@caip.rutgers.edu.
if (echo -n testing; echo 1,2,3) | sed s/-n/xn/ | grep xn >/dev/null; then
ac_n= ac_c='
' ac_t=''
else
ac_n=-n ac_c= ac_t=
fi
else
ac_n= ac_c='\c' ac_t=
fi
if test -z "$srcdir"; then
# Assume the source directory is the same one as the path to ltmain.sh.
srcdir='$echo "$ltmain" | $Xsed -e 's%/[^/]*$%%''
test "$srcdir" = "$ltmain" && srcdir=.
fi
trap "$rm conftest*; exit 1" 1 2 15
if test "$verify_host" = yes; then
# Check for config.guess and config.sub.
ac_aux_dir=
for ac_dir in $srcdir $srcdir/.. $srcdir/../..; do
if test -f $ac_dir/config.guess; then
ac_aux_dir=$ac_dir
break
fi
done
if test -z "$ac_aux_dir"; then
echo "$progname: cannot find config.guess in $srcdir $srcdir/.. $srcdir/../.." 1>&2
echo "$help" 1>&2
exit 1
fi
ac_config_guess=$ac_aux_dir/config.guess
ac_config_sub=$ac_aux_dir/config.sub
# Make sure we can run config.sub.
if $ac_config_sub sun4 >/dev/null 2>&1; then :
else
echo "$progname: cannot run $ac_config_sub" 1>&2
echo "$help" 1>&2
exit 1
fi
echo $ac_n "checking host system type""... $ac_c" 1>&6

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host_alias=$host
case "$host_alias" in
"")
if host_alias='$ac_config_guess'; then :
else
echo "$progname: cannot guess host type; you must specify one" 1>&2
echo "$help" 1>&2
exit 1
fi ;;
esac
host='$ac_config_sub $host_alias'
echo "$ac_t$host" 1>&6
# Make sure the host verified.
test -z "$host" && exit 1
elif test -z "$host"; then
echo "$progname: you must specify a host type if you use \'--no-verify'" 1>&2
echo "$help" 1>&2
exit 1
else
host_alias=$host
fi
# Transform linux* to *-*-linux-gnu*, to support old configure scripts.
case "$host_os" in
linux-gnu*) ;;
linux*) host='echo $host | sed 's/^\(.*-.*-linux\)\(.*\)$/\1-gnu\2/''
esac
host_cpu='echo $host | sed 's/^\([^-]*\)-\([^-]*\)-\(.*\)$/\1/''
host_vendor='echo $host | sed 's/^\([^-]*\)-\([^-]*\)-\(.*\)$/\2/''
host_os='echo $host | sed 's/^\([^-]*\)-\([^-]*\)-\(.*\)$/\3/''
case "$host_os" in
aix3*)
# AIX sometimes has problems with the GCC collect2 program. For some
# reason, if we set the COLLECT_NAMES environment variable, the problems
# vanish in a puff of smoke.
if test "${COLLECT_NAMES+set}" != set; then
COLLECT_NAMES=
export COLLECT_NAMES
fi
;;
esac
# Determine commands to create old-style static archives.
old_archive_cmds='$AR cru $oldlib$oldobjs'

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old_postinstall_cmds=`chmod 644 $oldlib`
old_postuninstall_cmds=

# Set a sane default for 'AR'.
test -z "$AR" && AR=ar

# If RANLIB is not set, then run the test.
if test "$({RANLIB+set})" != "set"; then
result=no

    echo $ac_n "checking for ranlib... $ac_c" 1>&6
    IFS="[$IFS= ]; save_ifs="$IFS"; IFS="[$IFS = ]":
    for dir in $PATH; do
        test -z "$dir" && dir=.
        if test -f $dir/ranlib; then
            RANLIB="ranlib"
            result="ranlib"
            break
        fi
    done
    IFS="$save_ifs"

    echo "$ac_t$result" 1>&6
fi

if test "" "$RANLIB"; then
    old_archive_cmds="$old_archive_cmds:$RANLIB $oldlib"
    old_postinstall_cmds="$RANLIB $oldlib:$old_postinstall_cmds"
fi

# Check to see if we are using GCC.
if test "$with_gcc" != yes || test -z "$CC"; then
# If CC is not set, then try to find GCC or a usable CC.
    if test -z "$CC"; then
        echo $ac_n "checking for gcc... $ac_c" 1>&6
        IFS="[$IFS= ]; save_ifs="$IFS"; IFS="[$IFS = ]":
        for dir in $PATH; do
            test -z "$dir" && dir=.
            if test -f $dir/gcc; then
                CC="gcc"
                result="gcc"
                break
            fi
        done
        IFS="$save_ifs"
        if test -n "$CC"; then
            echo "$ac_t$CC" 1>&6
        fi
    fi

    if test "" "$CC"; then
        CC="gcc"
        break
    fi
done
IFS="$save_ifs"

if test -n "$CC"; then
    echo "$ac_t$CC" 1>&6
fi
else
echo "$ac_t"no 1>&6
fi
fi

# Not "gcc", so try "cc", rejecting "/usr/ucb/cc".
if test -z "$CC"; then
  echo "$ac_n" checking for cc... "$ac_c" 1>&6
  IFS="${IFS= }; save_ifs="IFS"; IFS="$IFS;"
  cc_rejected=no
  for dir in $PATH; do
    test -z "$dir" && dir=.
    if test -f $dir/cc; then
      if test "$dir/cc" = "/usr/ucb/cc"; then
        cc_rejected=yes
        continue
      fi
      CC="cc"
      break
    fi
  done
  IFS="$save_ifs"
  if test $cc_rejected = yes; then
    # We found a bogon in the path, so make sure we never use it.
    set dummy $CC
    shift
    if test $# -gt 0; then
      # We chose a different compiler from the bogus one.
      # However, it has the same name, so the bogon will be chosen
      # first if we set CC to just the name; use the full file name.
      shift
      set dummy "$dir/cc" "$@"
      shift
      CC="$@"
    fi
  fi

  if test -n "$CC"; then
    echo "$ac_t" "$CC" 1>&6
  else
    echo "$ac_t"no 1>&6
  fi
fi

if test -z "$CC"; then
  echo "$progname: error: no acceptable cc found in 
  $PATH" 1>&2
  exit 1
fi
Now see if the compiler is really GCC.

```bash
with_gcc=no
echo $ac_n "checking whether we are using GNU C... $ac_c" 1>&6
echo "$progname:424: checking whether we are using GNU C" >&5

$rm conftest.c
cat > conftest.c <<EOF
#define __GNUC__
EOF
if [ ac_try="${CC-cc} -E conftest.c" ]; ( eval echo $progname:432: "$ac_try\"" 1>&5; ( eval $ac_try) 2>&5; ); ] ||
egrep yes >/dev/null 2>&1; then
  with_gcc=yes
fi
$rm conftest.c
echo "$ac_t$with_gcc" 1>&6
fi

# Allow CC to be a program name with arguments.
set dummy $CC
compiler="$2"

echo $ac_n "checking for $compiler option to produce PIC... $ac_c" 1>&6
pic_flag=
special_shlib_compile_flags=
wl=
link_static_flag=
no_builtin_flag=

if test "$with_gcc" = yes then
  wl='-Wl,'
  link_static_flag='--static'
  no_builtin_flag='--no-builtin'

  case "$host_os" in
    aix3* | aix4* | irix5* | irix6* | osf3* | osf4*)
      # PIC is the default for these OSes.
    ; ;
    os2*)
      # We can build DLLs from non-PIC.
    ; ;
    amigaos*)
      # FIXME: we need at least 68020 code to build shared libraries, but
      # adding the '-m68020' flag to GCC prevents building anything better,
      # like '-m68040'.
    pic_flag='-m68020 -resident32 -malways-restore-a4'
  esac
```


*)
pic_flag=-fPIC
;
else

# PORTME Check for PIC flags for the system compiler.
case "$host_os" in
aix3* | aix4*)

# All AIX code is PIC.
link_static_flag='-bs0 -bI:/lib/syscalls.exp'
;;

hpux9* | hpux10*)

# Is there a better link_static_flag that works with the bundled CC?
wI='-Wl,'
link_static_flag="${wl}-a ${wl}archive"
pic_flag='+Z'
;;

irix5* | irix6*)
wI='-Wl,'
link_static_flag='-non_shared'
# PIC (with -KPIC) is the default.
;;

os2*)

# We can build DLLs from non-PIC.
;;

osf3* | osf4*)

# All OSF/1 code is PIC.
wI='-Wl,'
link_static_flag='-non_shared'
;;

sco3.2v5*)
pic_flag=-Kpic
link_static_flag=-dn
special_shlib_compile_flags=-belf
;;

solaris2*)
pic_flag=-KPIC'
link_static_flag=-Bstatic'
wI='-Wl,'
;;
sunos4*)
  pic_flag='PIC'
  link_static_flag='Bstatic'
  w1='Option ld'
::;

sysv4.2uw2*)
  pic_flag='-KPIC'
  link_static_flag='Bstatic'
  w1='-Wl,'
::;

uts4*)
  pic_flag='-pic'
  link_static_flag='Bstatic'
::;
*
  can_build_shared=no
::;
esac
fi

if test -n "$pic_flag"; then
  echo "$ac_t$pic_flag" 1>&6
  # Check to make sure the pic_flag actually works.
  echo $ac_n "checking if $compiler PIC flag $pic_flag works... $ac_c" 1>&6
  $rm conftest*
  echo > conftest.c
  save_CFLAGS="$CFLAGS"
  CFLAGS="$CFLAGS $pic_flag -DPIC"
  echo "$progname:547: checking if $compiler PIC flag $pic_flag works" >&5
  if { (eval echo $progname:548: "$ac_compile") 1>&5; (eval $ac_compile) 2>conftest.err; } && test -s conftest.o;
    then
      # Append any warnings to the config.log.
      cat conftest.err 1>&5
      # On HP-UX, both CC and GCC only warn that PIC is supported... then they
      # create non-PIC objects.  So, if there were any warnings, we assume that
      # PIC is not supported.
      if test -s conftest.err; then
        echo "$ac_t"no 1>&6
        can_build_shared=no
        pic_flag=
      else
        echo "$ac_t"yes 1>&6
        pic_flag="$pic_flag"
      fi
  fi
fi
else
    # Append any errors to the config.log.
cat conftest.err 1>&5
can_build_shared=no
pic_flag=
echo "$ac_t"no 1>&6
fi
CFLAGS="$save_CFLAGS"
rm conftest*
echo "$ac_t"none 1>&6
fi

# Check for any special shared library compilation flags.
if test -n "$special_shlib_compile_flags"; then
echo "$progname: warning: '$CC' requires '$special_shlib_compile_flags' to build shared libraries" 1>&2
if echo "$old_CC $old_CFLAGS " | egrep -e "[ ]$special_shlib_compile_flags[ ]" >/dev/null; then :
else
echo "$progname: add '$special_shlib_compile_flags' to the CC or CFLAGS env variable and reconfigure" 1>&2
can_build_shared=no
fi
fi

# Check to see if we can use ln -s, or we need hard links.
echo $ac_n "checking whether ln -s works... $ac_c" 1>&6
rm conftest*
echo 'main(){return(0);}' > conftest.c
save_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS $link_static_flag"
echo "$progname: checking if $compiler static flag $link_static_flag works" >&5
if { (eval echo $progname: "$ac_link") 1>&5; (eval $ac_link) 2>&5; } && test -s conftest; then
    echo "$ac_t$link_static_flag" 1>&6
else
    echo "$ac_t"none 1>&6
    link_static_flag=
fi
LDFLAGS="$save_LDFLAGS"
rm conftest*

if test -z "$LN_S"; then
    # Check to see if we can use ln -s, or we need hard links.
echo $ac_n "checking whether ln -s works... $ac_c" 1>&6
rm conftestdata
if ln -s X conftestdata 2>/dev/null; then
rmdir conftestdata
LN_S="ln -s"
else
    LN_S=ln
if test "$LN_S" = "ln -s"; then
    echo "$ac_t"yes 1>&6
else
    echo "$ac_t"no 1>&6
fi
fi

# Make sure LD is an absolute path.
if test -z "$LD"; then
    ac_prog=ld
fi
if test "$with_gcc" = yes; then
    # Check if gcc -print-prog-name=ld gives a path.
    echo $ac_n "checking for ld used by GCC... $ac_c" 1>&6
    echo "$progname:624: checking for ld used by GCC" >&5
    ac_prog='($CC -print-prog-name=ld) 2>&5'
    case "$ac_prog" in
    # Accept absolute paths.
    /* | [A-Za-z]\:\*/
    test -z "$LD" &&& LD="$ac_prog"
    ;;
    ";"
    # If it fails, then pretend we are not using GCC.
    ac_prog=ld
    ;;
    *)
    # If it is relative, then search for the first ld in PATH.
    with_gnu_ld=unknown
    ;;
    esac
    elif test "$with_gnu_ld" = yes; then
        echo $ac_n "checking for GNU ld... $ac_c" 1>&6
        echo "$progname:642: checking for GNU ld" >&5
        else
        echo $ac_n "checking for non-GNU ld"...
        ac_prog=ld
    fi
fi

if test -z "$LD"; then
    IFS="$IFS= "; ac_save_ifs="$IFS";
    ifs="$IFS= "
    for ac_dir in $PATH; do
        test -z "$ac_dir" &&& ac_dir=.
    done
    for ac_dir in $PATH; do
    if test -f "$ac_dir/$ac_prog"; then
        LD="$ac_dir/$ac_prog"
        # Check to see if the program is GNU ld. I'd rather use --version,
        # but apparently some GNU ld's only accept -v.
        # Break only if it was the GNU/non-GNU ld that we prefer.
        if "$LD" -v 2>&1 < /dev/null | egrep '\(GNU\|with BFD\)' > /dev/null; then
test "$with_gnu_ld" != no && break
else
test "$with_gnu_ld" != yes && break
fi
fi
done
IFS="$ac_save_ifs"
fi

if test -n "$LD"; then
  echo "$ac_t$LD" 1>&6
else
  echo "$ac_t"no 1>&6
fi

if test -z "$LD"; then
  echo "$progname: error: no acceptable ld found in \$PATH" 1>&2
  exit 1
fi
fi

# Check to see if it really is or is not GNU ld.
echo $ac_n "checking if the linker ($LD) is GNU ld... $ac_c" 1>&6
# I'd rather use --version here, but apparently some GNU ld's only accept -v.
if $LD -v 2>&1 </dev/null | egrep '(GNU|with BFD)' 1>&5; then
  with_gnu_ld=yes
else
  with_gnu_ld=no
fi
echo "$ac_t$with_gnu_ld" 1>&6

# See if the linker supports building shared libraries.
echo $ac_n "checking whether the linker ($LD) supports shared libraries... $ac_c" 1>&6

allow_undefined_flag=
no_undefined_flag=
archive_cmds=
old_archive_from_new_cmds=
export_dynamic_flag_spec=
hardcode_libdir_flag_spec=
hardcode_libdir_separator=
hardcode_direct=no
hardcode_minus_L=no
hardcode_shlibpath_var=unsupported
runpath_var=

case "$host_os" in
  amigaos* | sunos4*)
# On these operating systems, we should treat GNU ld like the system ld.
gnu_ld_acts_native=yes
;;
*)
gnu_ld_acts_native=no
;;
esac
ld_shlibs=yes
if test "$with_gnu_ld" = yes && test "$gnu_ld_acts_native" != yes; then
# See if GNU ld supports shared libraries.
if $LD --help 2>&1 | egrep ': supported targets:.* elf' > /dev/null; then
archive_cmds='$CC -shared ${wl}-soname $wl$soname -o $lib$libobjs'
runpath_var=LD_RUN_PATH
ld_shlibs=yes
else
ld_shlibs=no
fi
if test "$ld_shlibs" = yes; then
hardcode_libdir_flag_spec='${wl}--rpath ${wl}$libdir'
export_dynamic_flag_spec='${wl}--export-dynamic'
fi
else
# PORTME fill in a description of your system's linker (not GNU ld)
case "$host_os" in
aix3*)
allow_undefined_flag=unsupported
archive_cmds='$NM$libobjs | $global_symbol_pipe | sed '\''s/.* //'\'' > $lib.exp;$LD -o $objdir/$soname$libobjs bE:$lib.exp -T512 -H512 -bM:SRE;$AR cru $lib $objdir/$soname'
# Note: this linker hardcodes the directories in LIBPATH if there
# are no directories specified by -L.
hardcode_minus_L=yes
if test "$with_gcc" = yes && test -z "$link_static_flag"; then
# Neither direct hardcoding nor static linking is supported with a
# broken collect2.
hardcode_direct=unsupported
fi
;;
aix4*)
allow_undefined_flag=unsupported
archive_cmds='$NM$libobjs | $global_symbol_pipe | sed '\''s/.* //'\'' > $lib.exp;$CC -o $objdir/$soname$libobjs
${wl}-bE:$lib.exp ${wl}-bM:SRE ${wl}-bnoentry;$AR cru $lib $objdir/$soname'
hardcode_direct=yes
hardcode_minus_L=yes
;;

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amigaos*)
archive_cmds="$rm $objdir/a2ixlibrary.data;$echo "#define NAME $libname" > $objdir/a2ixlibrary.data;$echo "#define LIBRARY_ID 1" >> $objdir/a2ixlibrary.data;$echo "#define VERSION $major" >> $objdir/a2ixlibrary.data;$echo "#define REVISION $revision" >> $objdir/a2ixlibrary.data;$AR cru $lib$libobjs;$RANLIB $lib;(cd $objdir && a2ixlibrary -32)"
  hardcode_libdir_flag_spec='-LSlibdir'
  hardcode_minus_L=yes
;

# FreeBSD 2.2.[012] allows us to include c++rt0.o to get C++ constructor
# support. Future versions do this automatically, but an explicit c++rt0.o
# does not break anything, and helps significantly (at the cost of a little
# extra space).
freebsd2.2*)
archive_cmds='$LD -Bshareable -o $lib$libobjs /usr/lib/c++rt0.o'
  hardcode_libdir_flag_spec='-RSlibdir'
  hardcode_direct=yes
  hardcode_minus_L=yes
  hardcode_shlibpath_var=no
;

# Unfortunately, older versions of FreeBSD 2 do not have this feature.
freebsd2*)
archive_cmds='$LD -Bshareable -o $lib$libobjs'
  hardcode_direct=yes
  hardcode_minus_L=yes
  hardcode_shlibpath_var=no
;

# FreeBSD 3, at last, uses gcc -shared to do shared libraries.
freebsd3*)
archive_cmds='$CC -shared -o $lib$libobjs'
  hardcode_direct=yes
  hardcode_minus_L=yes
  hardcode_shlibpath_var=no
;

hpux9*)
archive_cmds='$rm $objdir/$soname;$LD -b +s +b $install_libdir -o $objdir/$soname$libobjs;mv $objdir/$soname $lib'
  hardcode_libdir_flag_spec='${wl}+b ${wl}$libdir'
  hardcode_direct=yes
  hardcode_minus_L=yes
  export_dynamic_flag_spec='${wl}-E'
;

hpx10*)
archive_cmds=\$LD -b +h $soname +s +b $install_libdir -o $lib$libobjs'
hardcode_libdir_flag_spec=\${wl}+b $libdir
hardcode_direct=yes
hardcode_minus_L=yes
export_dynamic_flag_spec=\${wl}-E'
::

irix5* | irix6*)
archive_cmds=\$LD -shared -o $lib -soname $soname -set_version $verstring$libobjs'
hardcode_libdir_flag_spec=\${wl}-rpath $libdir'
::

netbsd*)
# Tested with NetBSD 1.2 ld
archive_cmds=\$LD -Bshareable -o $lib$libobjs'
hardcode_libdir_flag_spec=\'-R$libdir'
hardcode_direct=yes
hardcode_shlibpath_var=no
::

openbsd*)
archive_cmds=\$LD -Bshareable -o $lib$libobjs'
hardcode_libdir_flag_spec=\'-R$libdir'
hardcode_direct=yes
hardcode_shlibpath_var=no
::

os2*)
hardcode_libdir_flag_spec=\'-L$libdir'
hardcode_minus_L=yes
allow_undefined_flag=unsupported
archive_cmds=\$echo "LIBRARY $libname INITINSTANCE" > $objdir/$libname.def;\$echo "DESCRIPTION "$libname"" >> $objdir/$libname.def;\$echo DATA >> $objdir/$libname.def;\$echo " SINGLE NONSHARED" >> $objdir/$libname.def;\$echo EXPORTS >> $objdir/$libname.def;\$emxexp$libobjs >> $objdir/$libname.def;\$CC -Zdll -Zcrtdll -o $lib$libobjs \$objdir/$libname.def'
old_archive_from_new_cmds=\$emximp -o $objdir/$libname.a $objdir/$libname.def'
::

osf3* | osf4*)
allow_undefined_flag=' -expect_unresolved '
archive_cmds=\$LD -shared$[allow_undefined_flag] -o $lib -soname $soname -set_version $verstring$libobjs$deplibs'
hardcode_libdir_flag_spec=\${wl}-rpath $libdir'
hardcode_libdir_separator=:
::

sco3.2v5*)
archive_cmds='\$LD -G -o $lib\$libobjs'
hardcode_direct=yes
;

solaris2*)
    no_undefined_flag=' -z text'
    archive_cmds='\$LD -G{$allow_undefined_flag} -h $soname -o $lib\$libobjs'
    hardcode_libdir_flag_spec='-R$libdir'
    hardcode_shlibpath_var=no

# Solaris 2 before 2.5 hardcodes -L paths.
    case "$host_os" in
        solaris2.[0-4]*)
            hardcode_minus_L=yes
            ;;
        esac
        ;;

sunos4*)
    if test "\$with_gcc" = yes; then
        archive_cmds='\$CC -shared -o $lib\$libobjs'
    else
        archive_cmds='\$LD -assert pure-text -Bstatic -o $lib\$libobjs'
    fi
    if test "\$with_gnu_ld" = yes; then
        export_dynamic_flag_spec='\${wl}-export-dynamic'
        fi
    hardcode_libdir_flag_spec='-L$libdir'
    hardcode_direct=yes
    hardcode_minus_L=yes
    hardcode_shlibpath_var=no
    ;;

uts4*)
    archive_cmds='\$LD -G -h $soname -o $lib\$libobjs'
    hardcode_libdir_flag_spec='-L$libdir'
    hardcode_direct=no
    hardcode_minus_L=no
    hardcode_shlibpath_var=no
    ;;

*)
    ld_shlibs=no
    can_build_shared=no
    ;;
    esac
    fi
echo "$ac_t$sld_shlibs" 1>&6

if test -z "$NM"; then
    echo $ac_n "checking for BSD-compatible nm... $ac_c" 1>&6
    case "$NM" in
        /* | [A-Za-z][:\*]*) ;* # Let the user override the test with a path.
    *)
        IFS="$IFS= "; ac_save_ifs="IFS" ; IFS="${IFS}";
        for ac_dir in /usr/ucb /usr/ccs/bin $PATH /bin; do
            test -z "$ac_dir" && ac_dir=.
            if test -f $ac_dir/nm; then
                # Check to see if the nm accepts a BSD-compat flag.
                # Adding the 'sed 1q' prevents false positives on HP-UX, which says:
                # nm: unknown option "B" ignored
                if ($ac_dir/nm -B /dev/null 2>&1 | sed '1q'; exit 0) | egrep /dev/null >/dev/null; then
                    NM="$ac_dir/nm -B"
                elif ($ac_dir/nm -p /dev/null 2>&1 | sed '1q'; exit 0) | egrep /dev/null >/dev/null; then
                    NM="$ac_dir/nm -p"
                else
                    NM="$ac_dir/nm"
                fi
            fi
        done
        IFS="${IFS= ";"}
        test -z "$NM" && NM=nm
    ;;
    esac
    echo "$ac_t$NM" 1>&6
fi

# Check for command to grab the raw symbol name followed by C symbol from nm.
echo $ac_n "checking command to parse $NM output... $ac_c" 1>&6

# These are sane defaults that work on at least a few old systems.
# [They come from Ultrix. What could be older than Ultrix??! ;)]

# Character class describing NM global symbol codes.
symcode='[BCDEGRSTU]'

# Regexp to match symbols that can be accessed directly from C.
sympat='\([^A-Za-z][A-Za-z0-9]*\)'

# Transform the above into a raw symbol and a C symbol.
symxfrm='\1 ' \1'

# Define system-specific variables.
case "$host_os" in
# Cannot use undefined symbols on IRIX because inlined functions mess us up.
symcode='[BCDEGRST]'
;
;
solaris2*)
symcode='[BDTU]'
;
esac

# If we're using GNU nm, then use its standard symbol codes.
if $NM -V 2>&1 | egrep '(GNU|with BFD)' > /dev/null; then
  symcode='[ABCDGISTUW]'
fi

# Write the raw and C identifiers.
global_symbol_pipe="sed -n -e 's/^.* $symcode $sympat$/$symxfrm/p'"

# Check to see that the pipe works correctly.
pipe_works=no
$rm conftest*
cat > conftest.c <<EOF
#ifdef __cplusplus
extern "C" {
#endif
cchar nm_test_var;
void nm_test_func(){}
#ifdef __cplusplus}
#endif
main(){nm_test_var='a';nm_test_func();return(0);}
EOF
echo "$progname:971: checking if global_symbol_pipe works" >&5
if [ (eval echo $progname:972: "$ac_compile") 1>&5; (eval $ac_compile) 2>&5; ] & & test -s conftest.o; then
  # Now try to grab the symbols.
nlist=conftest.nm
  if [ echo "$progname:975: eval "$NM conftest.o | $global_symbol_pipe > $nlist"" >&5; eval "$NM conftest.o | $global_symbol_pipe > $nlist 2>&5"; ] & & test -s "$nlist"; then
    # Try sorting and uniquifying the output.
    if sort "$nlist" | uniq > "$nlist"T; then
      mv -f "$nlist"T "$nlist"
      wcout="wc "$nlist" 2>/dev/null"
      count=$(echo "$Xwcout" | $Xsed -e 's/^[ ]*\([0-9][0-9]*\).*\$/\1/'" test "$count" -ge 0) 2>/dev/null || count=-1
"
else
    rm -f "$nlist"T
    count=-1
fi

# Make sure that we snagged all the symbols we need.
if egrep ' nm_test_var$' "$nlist" >/dev/null; then
    if egrep ' nm_test_func$' "$nlist" >/dev/null; then
        cat <<EOF > conftest.c
#endif
EOF
# Now generate the symbol file.
sed 's/^.* \(.*\)$/extern char \1;/g' < "$nlist" >> conftest.c

EOF
    # Now try linking the two files.
mv conftest.o conftestm.o
    save_LIBS="$LIBS"
    save_CFLAGS="$CFLAGS"

/* The number of symbols in dld_preloaded_symbols, -1 if unsorted. */
int dld_preloaded_symbol_count = $count;

/* The mapping between symbol names and symbols. */
struct {
    char *name;
    __ptr_t address;
}
dld_preloaded_symbols[] =
EOF
    sed 's/^\(\./\(\.*\)\)/\1", (__ptr_t) \&\2}/g' < "$nlist" >> conftest.c
        cat <<EOF >> conftest.c
EOF
    EOF
    cat <<EOF >> conftest.c
#endif
EOF
    # Now try linking the two files.
    mv conftest.o conftestm.o
    save_LIBS="$LIBS"
    save_CFLAGS="$CFLAGS"
LIBS='conftestm.o'
CFLAGS="$CFLAGS$no_builtin_flag"
if { (eval echo $progname:1033: "$ac_link") 1>&5; (eval $ac_link) 2>&5; } && test -s conftest; then
  pipe_works=yes
else
  echo "$progname: failed program was:" >&5
  cat conftest.c >&5
fi
LIBS="$save_LIBS"
else
  echo "cannot find nm_test_func in $nlist" >&5
fi
else
  echo "cannot find nm_test_var in $nlist" >&5
fi
else
  echo "$progname: failed program was:" >&5
  cat conftest.c >&5
fi
$rm conftest*

# Do not use the global_symbol_pipe unless it works.
echo "$ac_tpipe_works" 1>&6
test "$pipe_works" = yes || global_symbol_pipe=

# Check hardcoding attributes.
echo $ac_n "checking how to hardcode library paths into programs... $ac_c" 1>&6
hardcode_action=
if test -n "$hardcode_libdir_flag_spec" || test -n "$runpath_var"; then
  hardcode_action=relink
  test -n "$runpath_var"; then
  test -n "$hardcode_shlibpath_var"; then
  # We can hardcode non-existant directories.
  if test "$hardcode_direct" != no & &
    test "$hardcode_minus_L" != no & &
    test "$hardcode_shlibpath_var" != yes; then
    # Linking always hardcodes the temporary library directory.
    hardcode_action=relink
  else
    # We can link without hardcoding, and we can hardcode nonexisting dirs.
    hardcode_action=immediate
  fi
  test "$hardcode_direct" != yes & &
  test "$hardcode_minus_L" != yes & &
  test "$hardcode_shlibpath_var" != yes; then
  #
# We cannot hardcode anything.
hardcode_action=unsupported
else
# We can only hardcode existing directories.
hardcode_action=relink
fi
echo "$ac_t$hardcode_action" 1>&6
test "$hardcode_action" = unsupported && can_build_shared=no

reload_flag=
reload_cmds='/LD$reload_flag -o $output$reload_objs'
echo $ac_n "checking for $LD option to reload object files... $ac_c" 1>&6
# PORTME Some linker may need a different reload flag.
reload_flag='-r'
echo "$ac_t$reload_flag"
test -n "$reload_flag" && reload_flag=" $reload_flag"
# PORTME Fill in your ld.so characteristics
library_names_spec=
libname_spec='lib$name'
soname_spec=
postinstall_cmds=
puninstall_cmds=
finish_cmds=
finish_eval=
shlibpath_var=
version_type=none
dynamic_linker="$host_os ld.so"

echo $ac_n "checking dynamic linker characteristics... $ac_c" 1>&6
case "$host_os" in
  aix3* | aix4*)
    version_type=linux
    library_names_spec='${libname}${release}.so.$versuffix $libname.a'
    shlibpath_var=LIBPATH
    # AIX has no versioning support, so we append a major version to the name.
    soname_spec='${libname}${release}.so.$major'
    ::
    amigaos*)
      library_names_spec='libname.ixlibrary $libname.a'
      # Create ${libname}._ixlibrary.a entries in /sys/libs.
      finish_eval='for lib in /s Libdir/*ixlibrary 2>/dev/null'; do libname="$echo "X$lib" | $Xsed -e "\Ss%^,\([^/\]\)ixlibrary$%\1%\"" ; test $rm /sys/libs/${libname}_ixlibrary.a; $show "(cd /sys/libs && $LN_S $lib ${libname}_ixlibrary.a)"; (cd /sys/libs && $LN_S $lib ${libname}_ixlibrary.a) || exit 1; done'
      ::
freebsd2* | freebsd3*)
version_type=sunos
library_names_spec='${libname}${release}.so.$versuffix $libname.so'
finish_cmds='PATH="$PATH:/sbin" ldconfig -m $libdir'
shlibpath_var=LD_LIBRARY_PATH
;;

gnu*)
version_type=sunos
library_names_spec='${libname}${release}.so.$versuffix'
shlibpath_var=LD_LIBRARY_PATH
;

hpux9* | hpux10*)
# Give a soname corresponding to the major version so that dld.sl refuses to
# link against other versions.
dynamic_linker="$host_os dld.sl"
version_type=sunos
shlibpath_var=SHLIB_PATH
library_names_spec="${libname}${release}.sl.$versuffix ${libname}${release}.sl.$major $libname.sl"
soname_spec="${libname}${release}.sl.$major"
# HP-UX runs *really* slowly unless shared libraries are mode 555.
postinstall_cmds='chmod 555 $lib'
;;

irix5* | irix6*)
version_type=osf
soname_spec="${libname}${release}.so"
library_names_spec="${libname}${release}.so.$versuffix $libname.so"
shlibpath_var=LD_LIBRARY_PATH
;

# No shared lib support for Linux oldld, aout, or coff.
linux-gnuoldld* | linux-gnuaout* | linux-gnucoff*)
dynamic_linker=no
;;

# This must be Linux ELF.
linux-gnu*)
version_type=linux
library_names_spec="${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so"
soname_spec="${libname}${release}.so.$major"
finish_cmds='PATH="$PATH:/sbin" ldconfig -m $libdir'
shlibpath_var=LD_LIBRARY_PATH

if test -f /lib/ld.so.1; then
dynamic_linker=GNU ld.so'

else
# Only the GNU ld.so supports shared libraries on MkLinux.
case "$host_cpu" in
  powerpc*) dynamic_linker=no ;;
  *) dynamic_linker='Linux ld.so' ;;
esac
fi
;

netbsd* | openbsd*)
  version_type=sunos
  library_names_spec='${libname}${release}.so.$versuffix'
  finish_cmds='PATH="$PATH:/sbin" ldconfig -m $libdir'
  shlibpath_var=LD_LIBRARY_PATH
  ;;

os2*)
  libname_spec='$name'
  library_names_spec='$libname.dll $libname.a'
  dynamic_linker='OS/2 ld.exe'
  shlibpath_var=LIBPATH
  ;;

osf3* | osf4*)
  version_type=osf
  soname_spec='${libname}${release}.so'
  library_names_spec='${libname}${release}.so.$versuffix $libname.so'
  shlibpath_var=LD_LIBRARY_PATH
  ;;

sco3.2v5*)
  version_type=osf
  soname_spec='${libname}${release}.so.$major'
  library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
  shlibpath_var=LD_LIBRARY_PATH
  ;;

solaris2*)
  version_type=linux
  library_names_spec='${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
  soname_spec='${libname}${release}.so.$major'
  shlibpath_var=LD_LIBRARY_PATH
  ;;

sunos4*)
  version_type=sunos
  library_names_spec='${libname}${release}.so.$versuffix'
  finish_cmds='PATH="$PATH:/usr/etc" ldconfig $libdir'
shlibpath_var=LD_LIBRARY_PATH

; sysv4.2uw2*)
  version_type=linux
  library_names_spec=${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
  soname_spec=${libname}${release}.so.$major $libname.so'
  shlibpath_var=LD_LIBRARY_PATH

;  uts4*)
  version_type=linux
  library_names_spec=${libname}${release}.so.$versuffix ${libname}${release}.so.$major $libname.so'
  soname_spec=${libname}${release}.so.$major $libname.so'
  shlibpath_var=LD_LIBRARY_PATH

; *)
  dynamic_linker=no

;  esac
echo "$ac_t$ddynamic_linker"
test "$dynamic_linker" = no && can_build_shared=no

# Report the final consequences.
echo "checking if libtool supports shared libraries... $can_build_shared" 1>&6
echo $ac_n "checking whether to build shared libraries... $ac_c" 1>&6
test "$can_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case "$host_os" in
  aix*)
test "$enable_shared" = yes && enable_static=no
  if test -n "$RANLIB"; then
    archive_cmds="$archive_cmds;$RANLIB $lib"
    postinstall_cmds="$RANLIB $lib"
  fi

;  esac
echo "$ac_t$enable_shared" 1>&6

# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
echo "checking whether to build static libraries... $enable_static" 1>&6
echo $ac_n "checking for objdir... $ac_c" 1>&6
rm -f .libs 2>/dev/null
mkdir .libs 2>/dev/null
if test -d .libs; then
  objdir=.libs
else
  # MS-DOS does not allow filenames that begin with a dot.
  objdir=_libs
fi
rmdir .libs 2>/dev/null
echo "$ac_t$objdir" 1>&6

# Copy echo and quote the copy, instead of the original, because it is
# used later.
ltecho="$echo"

# Now quote all the things that may contain metacharacters.
for var in ltecho old_CC old_CFLAGS old_CPPFLAGS old_LD old_NM old_RANLIB \
  old_LN_S AR CC LD LN_S NM reload_flag reload_cmds wl pic_flag \
  link_static_flag no_builin_flag export_dynamic_flag_spec \
  libname_spec library_names_spec soname_spec RANLIB \
  old_archive_cmds old_archive_from_new_cmds old_postinstall_cmds \
  old_postuninstall_cmds archive_cmds postinstall_cmds postuninstall_cmds \
  allow_undefined_flag no_undefined_flag \n
  finish_cmds finish_eval global_symbol_pipe \n  hardcode_libdir_flag_spec hardcode_libdir_separator; do
  case "$var" in
  reload_cmds | old_archive_cmds | old_archive_from_new_cmds | \n  old_postinstall_cmds | old_postuninstall_cmds | archive_cmds | \n  postinstall_cmds | postuninstall_cmds | finish_cmds)
    # Double-quote double-evaluated strings.
    eval "$var="\"X\$var\" "\$Xsed -e ""\$double_quote_subst" -e ""\$sed_quote_subst\""\"
    ;;
  *)
    eval "$var="\"X\$var\" "\$Xsed -e ""\$sed_quote_subst\""
    ;;
  esac
  done

ofile=libtool
trap "$rm $ofile; exit 1" 1 2 15
echo creating $ofile
$rm $ofile
cat <<EOF > $ofile
#!/bin/sh


# libtool - Provide generalized library-building support services.
# Generated automatically by $PROGRAM - GNU $PACKAGE $VERSION
# NOTE: Changes made to this file will be lost: look at ltconfig or ltmain.sh.
#
# Copyright (C) 1996-1998 Free Software Foundation, Inc.
# Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
# General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
#
# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.
#
# This program was configured as follows,
# on host `(hostname || uname -n) 2>/dev/null | sed 1q':
#
# CC="$old_CC" CFLAGS="$old_CFLAGS" CPPFLAGS="$old_CPPFLAGS" \n# LD="$old_LD" NM="$old_NM" RANLIB="$old_RANLIB" LN_S="$old_LN_S" \n# $0$ltconfig_args
#
# Compiler and other test output produced by $progname, useful for
# debugging $proname, is in ./config.log if it exists.
#
# Sed that helps us avoid accidentally triggering echo(1) options like -n.
# Xsed="sed -e s/\"X\"/\"/
#
# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
# if test "${CDPATH+set}" = set; then CDPATH=; export CDPATH; fi
#
# An echo program that does not interpret backslashes.
# echo="$ltecho"
#
# The version of $proname that generated this script.
# LTCONFIG_VERSION="$VERSION"
# Shell to use when invoking shell scripts.
SHELL=${CONFIG_SHELL:-/bin/sh}

# Whether or not to build libtool libraries.
built_libtool_libs=${enable_shared}

# Whether or not to build old-style libraries.
built_old_libs=${enable_static}

# The host system.
host_alias="$host_alias"
host="$host"

# The archiver.
AR="$AR"

# The default C compiler.
CC="$CC"

# The linker used to build libraries.
LD="$LD"

# Whether we need hard or soft links.
LN_S="$LN_S"

# A BSD-compatible nm program.
NM="$NM"

# The name of the directory that contains temporary libtool files.
objdir="$objdir"

# How to create reloadable object files.
reload_flag="$reload_flag"
reload_cmds="$reload_cmds"

# How to pass a linker flag through the compiler.
wl="$wl"

# Additional compiler flags for building library objects.
pic_flag="$pic_flag"

# Compiler flag to prevent dynamic linking.
link_static_flag="$link_static_flag"

# Compiler flag to turn off builtin functions.
no_builtin_flag="$no_builtin_flag"
# Compiler flag to allow reflexive dlopsens.
export_dynamic_flag_spec="$export_dynamic_flag_spec"

# Library versioning type.
version_type="$version_type"

# Format of library name prefix.
libname_spec="$libname_spec"

# List of archive names. First name is the real one, the rest are links.
# The last name is the one that the linker finds with -lNAME.
library_names_spec="$library_names_spec"

# The coded name of the library, if different from the real name.\nsoname_spec="$soname_spec"

# Commands used to build and install an old-style archive.
RANLIB="$RANLIB"
old_archive_cmds="$old_archive_cmds"
old_postinstall_cmds="$old_postinstall_cmds"
old_postuninstall_cmds="$old_postuninstall_cmds"

# Create an old-style archive from a shared archive.
old_archive_from_new_cmds="$old_archive_from_new_cmds"

# Commands used to build and install a shared archive.
archive_cmds="$archive_cmds"
postinstall_cmds="$postinstall_cmds"
postuninstall_cmds="$postuninstall_cmds"

# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag="$allow_undefined_flag"

# Flag that forces no undefined symbols.
no_undefined_flag="$no_undefined_flag"

# Commands used to finish a libtool library installation in a directory.
finish_cmds="$finish_cmds"

# Same as above, but a single script fragment to be evaled but not shown.
finish_eval="$finish_eval"

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe="$global_symbol_pipe"

# This is the shared library runtime path variable.
runpath_var="$runpath_var"
# This is the shared library path variable.
shlibpath_var=$shlibpath_var

# How to hardcode a shared library path into an executable.
hardcode_action=$hardcode_action

# Flag to hardcode \$libdir into a binary during linking.
# This must work even if \$libdir does not exist.
hardcode_libdir_flag_spec="Hardcode_libdir_flag_spec"

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator="Hardcode_libdir_separator"

# Set to yes if using DIR/libNAME.so during linking hardcodes DIR into the
# resulting binary.
hardcode_direct=$hardcode_direct

# Set to yes if using the -LDIR flag during linking hardcodes DIR into the
# resulting binary.
hardcode_minus_L=$hardcode_minus_L

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
# the resulting binary.
hardcode_shlibpath_var=$hardcode_shlibpath_var

EOF

case "\$host_os" in
  aix3*)
    cat <<\EOF >> $ofile
    # AIX sometimes has problems with the GCC collect2 program. For some
    # reason, if we set the COLLECT_NAMES environment variable, the problems
    # vanish in a puff of smoke.
    if test "\${COLLECT_NAMES+set}" != set; then
      COLLECT_NAMES=
      export COLLECT_NAMES
    fi
    EOF
    ::
esac

# Append the ltmain.sh script.
cat "\$ltmain" >> $ofile || (rm -f $ofile; exit 1)

chmod +x $ofile
exit 0
6.195 JSON 2.16

6.195.1 Available under license:

--- #YAML:1.0
name: JSON
version: 2.16
abstract: JSON (JavaScript Object Notation) encoder/decoder
author: - Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>
license: perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
requires:
  Test::More: 0
no_index:
directory:
  - t
  - inc
generated_by: ExtUtils::MakeMaker version 6.48
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
JSON version 2.16
=================

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

NAME
JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS
use JSON; # imports encode_json, decode_json, to_json and from_json.

$json_text = to_json($perl_scalar);
$perl_scalar = from_json($json_text);

# option-acceptable
$json_text = to_json($perl_scalar, {ascii => 1});
$perl_scalar = from_json($json_text, {utf8 => 1});

# OOP
$json = new JSON;
$json_text = $json->encode($perl_scalar);
$perl_scalar = $json->decode($json_text);

# pretty-printing
$json_text = $json->pretty->encode($perl_scalar);

# simple interface
$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

# If you want to use PP only support features, call with `-support_by_pp`
# When XS unsupported feature is enable, using PP de/encode.

use JSON -support_by_pp;

VERSION
2.16

This version is compatible with JSON::XS 2.26 and later.

DESCRIPTION
************************** CAUTION ********************************
* This is 'JSON module version 2' and there are many differences *
* to version 1.xx                                              *
* Please check your applications using old version.            *
* See to 'INCOMPATIBLE CHANGES TO OLD VERSION'                 *
******************************************************************************

JSON (JavaScript Object Notation) is a simple data format. See to
<http://www.json.org/> and

This module converts Perl data structures to JSON and vice versa using
either JSON::XS or JSON::PP.

JSON::XS is the fastest and most proper JSON module on CPAN which must
be compiled and installed in your environment. JSON::PP is a pure-Perl module which is bundled in this distribution and has a strong compatibility to JSON::XS.

This module try to use JSON::XS by default and fail to it, use JSON::PP instead. So its features completely depend on JSON::XS or JSON::PP.

See to "BACKEND MODULE DECISION".

To distinguish the module name 'JSON' and the format type JSON, the former is quoted by C<> (its results vary with your using media), and the latter is left just as it is.

Module name : "JSON"
Format type : JSON

FEATURES
* correct unicode handling
  This module (i.e. backend modules) knows how to handle Unicode, documents how and when it does so, and even documents what "correct" means.

  Even though there are limitations, this feature is available since Perl version 5.6.

  JSON::XS requires Perl 5.8.2 (but works correctly in 5.8.8 or later), so in older versions "JSON" should call JSON::PP as the backend which can be used since Perl 5.005.

  With Perl 5.8.x JSON::PP works, but from 5.8.0 to 5.8.2, because of a Perl side problem, JSON::PP works slower in the versions. And in 5.005, the Unicode handling is not available. See to "UNICODE HANDLING ON PERLS" in JSON::PP for more information.

  See also to "A FEW NOTES ON UNICODE AND PERL" in JSON::XS and "ENCODING/CODESET_FLAG_NOTES" in JSON::XS.

* round-trip integrity
  When you serialise a perl data structure using only data types supported by JSON, the deserialised data structure is identical on the Perl level. (e.g. the string "2.0" doesn't suddenly become "2" just because it looks like a number). There minor *are* exceptions to this, read the MAPPING section below to learn about those.

* strict checking of JSON correctness
  There is no guessing, no generating of illegal JSON texts by default, and only JSON is accepted as input by default (the latter
is a security feature).

See to "FEATURES" in JSON::XS and "FEATURES" in JSON::PP.

* fast
  This module returns a JSON::XS object itself if available. Compared to other JSON modules and other serialisers such as Storable, JSON::XS usually compares favourably in terms of speed, too.

  If not available, "JSON" returns a JSON::PP object instead of JSON::XS and it is very slow as pure-Perl.

* simple to use
  This module has both a simple functional interface as well as an object oriented interface interface.

* reasonably versatile output formats
  You can choose between the most compact guaranteed-single-line format possible (nice for simple line-based protocols), a pure-ASCII format (for when your transport is not 8-bit clean, still supports the whole Unicode range), or a pretty-printed format (for when you want to read that stuff). Or you can combine those features in whatever way you like.

FUNCTIONAL INTERFACE
Some documents are copied and modified from "FUNCTIONAL INTERFACE" in JSON::XS. "to_json" and "from_json" are additional functions.

**to_json**

```perl
$json_text = to_json($perl_scalar)
```

Converts the given Perl data structure to a json string.

This function call is functionally identical to:

```perl
$json_text = JSON->new->encode($perl_scalar)
```

Takes a hash reference as the second.

```perl
$json_text = to_json($perl_scalar, $flag_hashref)
```

So,

```perl
$json_text = encode_json($perl_scalar, {utf8 => 1, pretty => 1})
```

equivalent to:

```perl
$json_text = JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```
from_json
$perl_scalar = from_json($json_text)

The opposite of "to_json": expects a json string and tries to parse it, returning the resulting reference.

This function call is functionally identical to:

$perl_scalar = JSON->decode($json_text)

Takes a hash reference as the second.

$perl_scalar = from_json($json_text, $flag_hashref)

So,

$perl_scalar = from_json($json_text, {utf8 => 1})

equivalent to:

$perl_scalar = JSON->new->utf8(1)->decode($json_text)

encode_json
$json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string.

This function call is functionally identical to:

$json_text = JSON->new->utf8->encode($perl_scalar)

decode_json
$perl_scalar = decode_json $json_text

The opposite of "encode_json": expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference.

This function call is functionally identical to:

$perl_scalar = JSON->new->utf8->decode($json_text)

JSON::is_bool
$e_boolean = JSON::is_bool($volatile)

Returns true if the passed scalar represents either JSON::true or
JSON::false, two constants that act like 1 and 0 respectively and are also used to represent JSON "true" and "false" in Perl strings.

JSON::true
Returns JSON true value which is blessed object. It "isa" JSON::Boolean object.

JSON::false
Returns JSON false value which is blessed object. It "isa" JSON::Boolean object.

JSON::null
Returns "undef".

See MAPPING, below, for more information on how JSON values are mapped to Perl.

COMMON OBJECT-ORIENTED INTERFACE

new
$json = new JSON

Returns a new "JSON" object inherited from either JSON::XS or JSON::PP that can be used to de/encode JSON strings.

All boolean flags described below are by default *disabled*.

The mutators for flags all return the JSON object again and thus calls can be chained:

my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> { "a": [1, 2] }

ascii
$json = $json->ascii([$enable])

$enabled = $json->get_ascii

If $enable is true (or missing), then the encode method will not generate characters outside the code range 0..127. Any Unicode characters outside that range will be escaped using either a single \\uXXXX or a double \uHHHH\uLLLLL escape sequence, as per RFC4627.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

This feature depends on the used Perl version and environment.
See to "UNICODE HANDLING ON PERLS" in JSON::PP if the backend is PP.

```perl
JSON->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\udc01"]
```

### latin1

```perl
$json = $json->latin1([$enable])

$enabled = $json->get_latin1
```

If $enable is true (or missing), then the encode method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags.

```perl
JSON->new->latin1->encode ("\x{89}\x{abc}");
=> ["\x{89}\u0abc"]    # (perl syntax, U+abc escaped, U+89 not)
```

### utf8

```perl
$json = $json->utf8([$enable])

$enabled = $json->get_utf8
```

If $enable is true (or missing), then the encode method will encode the JSON result into UTF-8, as required by many protocols, while the decode method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bytewise/binary I/O.

In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If $enable is false, then the encode method will return the JSON string as a (non-encoded) Unicode string, while decode expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

Example, output UTF-16BE-encoded JSON:

```perl
use Encode;
$jsontext = encode "UTF-16BE", JSON::XS->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```perl
use Encode;
$object = JSON::XS->new->decode (decode "UTF-32LE", $jsoncontext);
```
See to "UNICODE HANDLING ON PERLS" in JSON::PP if the backend is PP.

pretty
   $json = $json->pretty([$enable])

This enables (or disables) all of the "indent", "space_before" and "space_after" (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

Equivalent to:

   $json->indent->space_before->space_after

The indent space length is three and JSON::XS cannot change the indent space length.

indent
   $json = $json->indent([$enable])

   $enabled = $json->get_indent

If $enable is true (or missing), then the "encode" method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If $enable is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any "newlines".

This setting has no effect when decoding JSON texts.

The indent space length is three. With JSON::PP, you can also access "indent_length" to change indent space length.

space_before
   $json = $json->space_before([$enable])

   $enabled = $json->get_space_before

If $enable is true (or missing), then the "encode" method will add an extra optional space before the ":" separating keys from values in JSON objects.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.
Example, space_before enabled, space_after and indent disabled:

{"key": "value"}

space_after
$json = $json->space_after([Enable])

$enabled = $json->get_space_after

If $enable is true (or missing), then the "encode" method will add an extra optional space after the "." separating keys from values in JSON objects and extra whitespace after the ",," separating key-value pairs and array members.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

{"key": "value"}

relaxed
$json = $json->relaxed([Enable])

$enabled = $json->get_relaxed

If $enable is true (or missing), then "decode" will accept some extensions to normal JSON syntax (see below). "encode" will not be affected in anyway. *Be aware that this option makes you accept invalid JSON texts as if they were valid!*. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If $enable is false (the default), then "decode" will only accept valid JSON texts.

Currently accepted extensions are:

* list items can have an end-comma
  JSON *separates* array elements and key-value pairs with commas.
  This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

  

  [ 1,
* shell-style '#'-comments
Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```json
[
  1, # this comment not allowed in JSON
  # neither this one...
]
```
canonical
```
$json = $json->canonical([$enable])

$enabled = $json->get_canonical
```
If $enable is true (or missing), then the "encode" method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If $enable is false, then the "encode" method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

allow_nonref
```
$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref
```
If $enable is true (or missing), then the "encode" method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, "decode" will accept those JSON values instead of croaking.
If $enable is false, then the "encode" method will croak if it isn’t passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, "decode" will croak if given something that is not a JSON object or array.

```
JSON->new->allow_nonref->encode ("Hello, World!")
=> "Hello, World!"
```

allow_unknown

```perl
$json = $json->allow_unknown ([{$enable}])

$enabled = $json->get_allow_unknown
```

If $enable is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled separately by c<allow_nonref>.

If $enable is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

allow_blessed

```perl
$json = $json->allow_blessed([{$enable}])

$enabled = $json->get_allow_blessed
```

If $enable is true (or missing), then the "encode" method will not barf when it encounters a blessed reference. Instead, the value of the convert_blessed option will decide whether "null" ("convert_blessed" disabled or no “TO_JSON” method found) or a representation of the object ("convert_blessed" enabled and “TO_JSON” method found) is being encoded. Has no effect on "decode".

If $enable is false (the default), then "encode" will throw an exception when it encounters a blessed object.

convert_blessed

```perl
$json = $json->convert_blessed([{$enable}])

$enabled = $json->get_convert_blessed
```

If $enable is true (or missing), then "encode", upon encountering a blessed object, will check for the availability of the "TO_JSON" method on the object’s class. If found, it will be called in scalar context and
the resulting scalar will be encoded instead of the object. If no "TO_JSON" method is found, the value of "allow_blessed" will decide what to do.

The "TO_JSON" method may safely call die if it wants. If "TO_JSON" returns other blessed objects, those will be handled in the same way. "TO_JSON" must take care of not causing an endless recursion cycle (== crash) in this case. The name of "TO_JSON" was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with the "to_json" function or method.

This setting does not yet influence "decode" in any way.

If $enable is false, then the "allow_blessed" setting will decide what to do when a blessed object is found.

convert_blessed_universally mode
If use "JSON" with "-convert_blessed_universally", the "UNIVERSAL::TO_JSON" subroutine is defined as the below code:

```perl
*UNIVERSAL::TO_JSON = sub {
    my $b_obj = B::svref_2object( $_[0] );
    return $b_obj->isa('B::HV') ? %{ $_[0] } : $b_obj->isa('B::AV') ? @{ $_[0] } : undef;
}
```

This will cause that "encode" method converts simple blessed objects into JSON objects as non-blessed object.

```
JSON -convert_blessed_universally;
$json->allow_blessed->convert_blessed->encode( $blessed_object )
```

This feature is experimental and may be removed in the future.

filter_json_object
```
$json = $json->filter_json_object([$coderef])
```

When $coderef is specified, it will be called from "decode" each time it decodes a JSON object. The only argument passed to the coderef is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: *not* "undef", which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.
When $coderef is omitted or undefined, any existing callback will be removed and "decode" will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```perl
my $js = JSON->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('[{}]'); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2");
```

```perl
filter_json_single_key_object
$json = $json->filter_json_single_key_object($key => $coderef)
```

Works remotely similar to "filter_json_object", but is only called for JSON objects having a single key named $key.

This $coderef is called before the one specified via "filter_json_object", if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even "undef" but the empty list), the callback from "filter_json_object" will be called next, as if no single-key callback were specified.

If $coderef is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often than the "filter_json_object" one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "__class_whatever__", or "$__dollars_are_rarely_used__$" or "__ugly_brace_placement", or even things like "__class_md5sum(classname)__", to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form "{ "__widget__" => <id> }" into the corresponding $WIDGET{<id>} object:

```perl
# return whatever is in $WIDGET{5}:
JSON
  -new
```
->filter_json_single_key_object (__widget__ => sub {
  $WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5}"

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
  my ($self) = @_;

  unless ($self->{id}) {
    $self->{id} = ..get..some..id..;
    $WIDGET{$self->{id}} = $self;
  }

  { __widget__ => $self->{id} }
}

shrink
$json = $json->shrink([$enable])

$enabled = $json->get_shrink

With JSON::XS, this flag resizes strings generated by either "encode" or "decode" to their minimum size possible. This can save memory when your JSON texts are either very very long or you have many short strings. It will also try to downsize any strings to octet-form if possible: perl stores strings internally either in an encoding called UTF-X or in octet-form. The latter cannot store everything but uses less space in general (and some buggy Perl or C code might even rely on that internal representation being used).

With JSON::PP, it is noop about resizing strings but tries "utf8::downgrade" to the returned string by "encode". See to utf8.

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS and "METHODS" in JSON::PP.

max_depth
$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default 512) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.
Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of "[" or "]" characters without their matching closing parenthesis crossed to reach a given character in a string.

If no argument is given, the highest possible setting will be used, which is rarely useful.

Note that nesting is implemented by recursion in C. The default value has been chosen to be as large as typical operating systems allow without crashing. (JSON::XS)

With JSON::PP as the backend, when a large value (100 or more) was set and it de/encodes a deep nested object/text, it may raise a warning 'Deep recursion on subroutin' at the perl runtime phase.

See "SECURITY CONSIDERATIONS" in JSON::XS for more info on why this is useful.

```
max_size
$json = $json->max_size([$maximum_string_size])

$max_size = $json->get_max_size
```

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is 0, meaning no limit. When "decode" is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on "encode" (yet).

If no argument is given, the limit check will be deactivated (same as when 0 is specified).

See "SECURITY CONSIDERATIONS" in JSON::XS, below, for more info on why this is useful.

```
encode
$json_text = $json->encode($perl_scalar)
```

Converts the given Perl data structure (a simple scalar or a reference to a hash or array) to its JSON representation. Simple scalars will be converted into JSON string or number sequences, while references to arrays become JSON arrays and references to hashes become JSON objects. Undefined Perl values (e.g. "undef") become JSON "null" values. References to the integers 0 and 1 are converted into "true" and "false".

```
decode
```
$perl_scalar = $json->decode($json_text)

The opposite of "encode": expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

JSON numbers and strings become simple Perl scalars. JSON arrays become Perl arrayrefs and JSON objects become Perl hashrefs. "true" becomes 1 ("JSON::true"), "false" becomes 0 ("JSON::false") and "null" becomes "undef".

decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the "decode" method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

    JSON->new->decode_prefix ("[1] the tail")
    => ([], 3)

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS

property

$boolean = $json->property($property_name)

Returns a boolean value about above some properties.

The available properties are "ascii", "latin1", "utf8", "indent", "space_before", "space_after", "relaxed", "canonical", "allow_nonref", "allow_unknow", "allow_blessed", "convert_blessed", "shrink", "max_depth" and "max_size".

    $boolean = $json->property('utf8');
    => 0
    $json->utf8;
    $boolean = $json->property('utf8');
    => 1

Sets the property with a given boolean value.

    $json = $json->property($property_name => $boolean);

With no argument, it returns all the above properties as a hash reference.

    $flag_hashref = $json->property();
INCREMENTAL PARSING

In JSON::XS 2.2, incremental parsing feature of JSON texts was implemented. Please check to "INCREMENTAL PARSING" in JSON::XS.

[void, scalar or list context] = $json->incr_parse ([string])

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If $string is given, then this string is appended to the already existing JSON fragment stored in the $json object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly *one* JSON object. If that is successful, it will return this object, otherwise it will return "undef". If there is a parse error, this method will croak just as "decode" would do (one can then use "incr_skip" to skip the errorneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

$lvalue_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This *only* works when a preceding call to "incr_parse" in *scalar context* successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it *will* fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSOn text (such as commas).

In Perl 5.005, "lvalue" attribute is not available. You must write codes like the below:
$string = $json->incr_text;
$string =~ s/\s*,\s*/\s/;
$json->incr_text( $string );

$json->incr_skip
This will reset the state of the incremental parser and will remove
the parsed text from the input buffer. This is useful after
"incr_parse" died, in which case the input buffer and incremental
parser state is left unchanged, to skip the text parsed so far and
to reset the parse state.

$json->incr_reset
This completely resets the incremental parser, that is, after this
call, it will be as if the parser had never parsed anything.

This is useful if you want ot repeatedly parse JSON objects and want
to ignore any trailing data, which means you have to reset the
parser after each successful decode.

JSON::PP SUPPORT METHODS
The below methods are JSON::PP own methods, so when "JSON" works with
JSON::PP (i.e. the created object is a JSON::PP object), available. See
to "JSON::PP OWN METHODS" in JSON::PP in detail.

If you use "JSON" with additonal ":support_by_pp", some methods are
available even with JSON::XS. See to "USE PP FEATURES EVEN THOUGH XS
BACKEND".

BEING { $ENV{'PERL_JSON_BACKEND'} = 'JSON::XS' }

use JSON -support_by_pp;

my $json = new JSON;
$json->allow_nonref->escape_slash->encode("/");

# functional interfaces too.
print to_json(["/"], {escape_slash => 1});
print from_json('["foo"]', {utf8 => 1});

If you do not want to all functions but ":support_by_pp", use
":no_export".

use JSON -support_by_pp, -no_export;
# functional interfaces are not exported.

allow_singlequote
$json = $json->allow_singlequote($enable)
If $enable is true (or missing), then "decode" will accept any JSON strings quoted by single quotations that are invalid JSON format.

```perl
$json->allow_singlequote->decode("'foo':'bar'");
$json->allow_singlequote->decode('foo':'bar');
$json->allow_singlequote->decode('foo':bar');
```

As same as the "relaxed" option, this option may be used to parse application-specific files written by humans.

allow_barekey

```perl
$json = $json->allow_barekey([$enable])
```

If $enable is true (or missing), then "decode" will accept bare keys of JSON object that are invalid JSON format.

As same as the "relaxed" option, this option may be used to parse application-specific files written by humans.

```perl
$json->allow_barekey->decode('foo':"bar");
```

allow_bignum

```perl
$json = $json->allow_bignum([$enable])
```

If $enable is true (or missing), then "decode" will convert the big integer Perl cannot handle as integer into a Math::BigInt object and convert a floating number (any) into a Math::BigFloat.

On the contrary, "encode" converts "Math::BigInt" objects and "Math::BigFloat" objects into JSON numbers with "allow_blessed" enable.

```perl
$json->allow_nonref->allow_blessed->allow_bignum;
$bigfloat = $json->decode('2.000000000000000000000000001');
print $json->encode($bigfloat);
# => 2.000000000000000000000000001
```

See to MAPPING about the conversion of JSON number.

loose

```perl
$json = $json->loose([$enable])
```

The unescaped \x00-\x1f\x22\x2f\x5c] strings are invalid in JSON strings and the module doesn't allow to "decode" to these (except for \x2f). If $enable is true (or missing), then "decode" will accept these unescaped strings.

```perl
$json->loose->decode(qq|\"abc def\"|);
```
See to "JSON::PP OWN METHODS" in JSON::PP.

escape_slash

   $json = $json->escape_slash([$enable])

According to JSON Grammar, *slash* (U+002F) is escaped. But by default JSON backend modules encode strings without escaping slash.

If $enable is true (or missing), then "encode" will escape slashes.

indent_length

   $json = $json->indent_length($length)

With JSON::XS, the indent space length is 3 and cannot be changed. With JSON::PP, it sets the indent space length with the given $length. The default is 3. The acceptable range is 0 to 15.

sort_by

   $json = $json->sort_by($function_name)
   $json = $json->sort_by($subroutine_ref)

If $function_name or $subroutine_ref are set, its sort routine are used.

   $js = $pc->sort_by(sub { JSON::PP::a cmp JSON::PP::b })->encode($obj);
   # is($js, q|{|"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|));

   $js = $pc->sort_by('own_sort')->encode($obj);
   # is($js, q|{|"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|));

   sub JSON::PP::own_sort { JSON::PP::a cmp JSON::PP::b }

As the sorting routine runs in the JSON::PP scope, the given subroutine name and the special variables $a, $b will begin with JSON::PP:::

If $integer is set, then the effect is same as "canonical" on.

See to "JSON::PP OWN METHODS" in JSON::PP.

MAPPING

This section is copied from JSON::XS and modified to "JSON". JSON::XS and JSON::PP mapping mechanisms are almost equivalent.

See to "MAPPING" in JSON::XS.

JSON -> PERL

object

   A JSON object becomes a reference to a hash in Perl. No ordering of
object keys is preserved (JSON does not preserve object key ordering itself).

array

A JSON array becomes a reference to an array in Perl.

string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, "JSON" will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

If the backend is JSON::PP and "allow_bignum" is enable, the big integers and the numeric can be optionally converted into Math::BigInt and Math::BigFloat objects.

true, false

These JSON atoms become "JSON::true" and "JSON::false", respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check whether a scalar is a JSON boolean by using the "JSON::is_bool" function.

If "JSON::true" and "JSON::false" are used as strings or compared as strings, they represent as "true" and "false" respectively.

    print JSON::true . "\n";
    => true
    print JSON::true + 1;

ok(JSON::true eq 'true');
ok(JSON::true eq '1');
ok(JSON::true == 1);

"JSON" will install these missing overloading features to the backend modules.

null
A JSON null atom becomes "undef" in Perl.

"JSON::null" returns "undef".

PERL -> JSON
The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

hash references
Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order that can change between runs of the same program but stays generally the same within a single run of a program. "JSON" optionally sort the hash keys (determined by the *canonical* flag), so the same datastructure will serialise to the same JSON text (given same settings and version of JSON::XS), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

In future, the ordered object feature will be added to JSON::PP using "tie" mechanism.

array references
Perl array references become JSON arrays.

other references
Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers 0 and 1, which get turned into "false" and "true" atoms in JSON. You can also use "JSON::false" and "JSON::true" to improve readability.

to_json [0,JSON::true]    # yields [false,true]

JSON::true, JSON::false, JSON::null
These special values become JSON true and JSON false values, respectively. You can also use "\1" and "\0" directly if you want.
blessed objects

Blessed objects are not directly representable in JSON. See the "allow_blessed" and "convert_blessed" methods on various options on how to deal with this: basically, you can choose between throwing an exception, encoding the reference as if it weren't blessed, or provide your own serialiser method.

With "convert_blessed_universally" mode, "encode" converts blessed hash references or blessed array references (contains other blessed references) into JSON members and arrays.

    use JSON -convert_blessed_universally;
    JSON->new->allow_blessed->convert_blessed->encode( $blessed_object );

See to convert_blessed.

simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::XS and JSON::PP will encode undefined scalars as JSON "null" values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

    # dump as number
    encode_json [-3.0e17]    # yields [-3e+17]
    my $value = 5; encode_json [$value] # yields [5]

    # used as string, so dump as string
    print $value;
    encode_json [$value]    # yields ["5"]

    # undef becomes null
    encode_json [undef]      # yields [null]

You can force the type to be a string by stringifying it:

    my $x = 3.1; # some variable containing a number
    "$x";        # stringified
    $x .= "";    # another, more awkward way to stringify
    print $x;   # perl does it for you, too, quite often

You can force the type to be a number by numifying it:

    my $x = "3"; # some variable containing a string
    $x += 0;    # numify it, ensuring it will be dumped as a number
$x *= 1;  # same thing, the chiose is yours.

You can not currently force the type in other, less obscure, ways.

Big Number

If the backend is JSON::PP and "allow_bignum" is enable, "encode" converts "Math::BigInt" objects and "Math::BigFloat" objects into JSON numbers.

JSON and ECMAscript

See to "JSON and ECMAscript" in JSON::XS.

JSON and YAML

JSON is not a subset of YAML. See to "JSON and YAML" in JSON::XS.

BACKEND MODULE DECISION

When you use "JSON", "JSON" tries to "use" JSON::XS. If this call failed, it will "uses" JSON::PP. The required JSON::XS version is *2.2* or later.

The "JSON" constructor method returns an object inherited from the backend module, and JSON::XS object is a blessed scaler reference while JSON::PP is a blessed hash reference.

So, your program should not depend on the backend module, especially returned objects should not be modified.

my $json = JSON->new; # XS or PP?
$json->{stash} = 'this is xs object'; # this code may raise an error!

To check the backend module, there are some methods - "backend", "is_pp" and "is_xs".

JSON->backend; # 'JSON::XS' or 'JSON::PP'

JSON->backend->is_pp: # 0 or 1

JSON->backend->is_xs: # 1 or 0

$json->is_xs; # 1 or 0

$json->is_pp; # 0 or 1

If you set an enviornment variable "PERL_JSON_BACKEND", The calling action will be changed.

PERL_JSON_BACKEND = 0 or PERL_JSON_BACKEND = 'JSON::PP'

Always use JSON::PP
PERL_JSON_BACKEND == 1 or PERL_JSON_BACKEND = 'JSON::XS,JSON::PP'
(The default) Use compiled JSON::XS if it is properly compiled &
installed, otherwise use JSON::PP.

PERL_JSON_BACKEND == 2 or PERL_JSON_BACKEND = 'JSON::XS'
Always use compiled JSON::XS, die if it isn't properly compiled &
installed.

These ideas come from DBI::PurePerl mechanism.

example:

BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::PP' }  
use JSON; # always uses JSON::PP

In future, it may be able to specify another module.

USE PP FEATURES EVEN THOUGH XS Backend
Many methods are available with either JSON::XS or JSON::PP and when the
backend module is JSON::XS, if any JSON::PP specific (i.e. JSON::XS
unsupported) method is called, it will "warn" and be noop.

But if you "use" "JSON" passing the optional string ":-support_by_pp", it
makes a part of those unsupported methods available. This feature is
achieved by using JSON::PP in "de/encode".

BEGIN { $ENV{PERL_JSON_BACKEND} = 2 } # with JSON::XS
use JSON :-support_by_pp;
my $json = new JSON;
$json->allow_nonref->escape_slash->encode("/");

At this time, the returned object is a "JSON::Backend::XS::Supportable"
object (re-blessed XS object), and by checking JSON::XS unsupported
flags in de/encoding, can support some unsupported methods - "loose",
"allow_bignum", "allow_barekey", "allow_singlequote", "escape_slash",
"as_nonblessed" and "indent_length".

When any unsupported methods are not enable, "XS de/encode" will be used
as is. The switch is achieved by changing the symbolic tables.

"-support_by_pp" is effective only when the backend module is JSON::XS
and it makes the de/encoding speed down a bit.

See to "JSON::PP SUPPORT METHODS".

INCOMPATIBLE CHANGES TO OLD VERSION
There are big incompatibility between new version (2.00) and old (1.xx).
If you use old "JSON" 1.xx in your code, please check it.

See to "Transition ways from 1.xx to 2.xx."

jsonToObj and$objToJson are obsoleted.
Non Perl-style name "jsonToObj" and "objToJson" are obsoleted (but not yet deleted from the source). If you use these functions in your code, please replace them with "from_json" and "to_json".

Global variables are no longer available.
"JSON" class variables - $JSON::AUTOCONVERT, $JSON::BareKey, etc... - are not available any longer. Instead, various features can be used through object methods.

Package JSON::Converter and JSON::Parser are deleted.
Now "JSON" bundles with JSON::PP which can handle JSON more properly than them.

Package JSON::NotString is deleted.
There was "JSON::NotString" class which represents JSON value "true", "false", "null" and numbers. It was deleted and replaced by "JSON::Boolean".

"JSON::Boolean" represents "true" and "false".

"JSON::Boolean" does not represent "null".

"JSON::null" returns "undef".

"JSON" makes JSON::XS::Boolean and JSON::PP::Boolean is-a relation to JSON::Boolean.

function JSON::Number is obsoleted.
"JSON::Number" is now needless because JSON::XS and JSON::PP have round-trip integrity.

JSONRPC modules are deleted.
Perl implementation of JSON-RPC protocol - "JSONRPC ", "JSONRPC::Transport::HTTP" and "Apache::JSONRPC " are deleted in this distribution. Instead of them, there is JSON::RPC which supports JSON-RPC protocol version 1.1.

Transition ways from 1.xx to 2.xx.
You should set "support_by_pp" mode firstly, because it is always successful for the below codes even with JSON::XS.

    use JSON -support_by_pp;
Exported jsonToObj (simple)
   from_json($json_text);

Exported objToJson (simple)
   to_json($perl_scalar);

Exported jsonToObj (advanced)
   $flags = {allow_barekey => 1, allow_singlequote => 1};
   from_json($json_text, $flags);

   equivalent to:

   $JSON::BareKey = 1;
   $JSON::QuotApos = 1;
   jsonToObj($json_text);

Exported objToJson (advanced)
   $flags = {allow_blessed => 1, allow_barekey => 1};
   to_json($perl_scalar, $flags);

   equivalent to:

   $JSON::BareKey = 1;
   objToJson($perl_scalar);

jsonToObj as object method
   $json->decode($json_text);

objToJson as object method
   $json->encode($perl_scalar);

new method with parameters
   The "new" method in 2.x takes any parameters no longer. You can set
   parameters instead;

   $json = JSON->new->pretty;

$JSON::Pretty, $JSON::Indent, $JSON::Delimiter
   If "indent" is enable, that menas $JSON::Pretty flag set. And
   $JSON::Delimiter was substituted by "space_before" and
   "space_after". In conclusion:

   $json->indent->space_before->space_after;

   Equivalent to:

   $json->pretty;
To change indent length, use "indent_length".

(Only with JSON::PP, if "-support_by_pp" is not used.)

$JSON::BareKey

(Only with JSON::PP, if "-support_by_pp" is not used.)

$JSON::ConvBlessed
	note "convert_blessed_universally". See to convert_blessed.

$JSON::QuotApos

(Only with JSON::PP, if "-support_by_pp" is not used.)

$JSON::SingleQuote

Disable. "JSON" does not make such a invalid JSON string any longer.

$JSON::KeySort

$JSON::KeySort

This is the ascii sort.

If you want to use with your own sort routine, check the "sort_by"
method.

(Only with JSON::PP, even if "-support_by_pp" is used currently.)

$JSON::SkipInvalid

$JSON::AUTOCONVERT

Needless. "JSON" backend modules have the round-trip integrity.

$JSON::UTF8

Needless because "JSON" (JSON::XS/JSON::PP) sets the UTF8 flag on
properly.
# With UTF8-flagged strings

$json->allow_nonref;
$str = chr(1000); # UTF8-flagged

$json_text = $json->utf8(0)->encode($str);
utf8::is_utf8($json_text);
# true
$json_text = $json->utf8(1)->encode($str);
utf8::is_utf8($json_text);
# false

$str = "" . chr(1000) . ""; # UTF8-flagged

$perl_scalar = $json->utf8(0)->decode($str);
utf8::is_utf8($perl_scalar);
# true
$perl_scalar = $json->utf8(1)->decode($str);
# died because of 'Wide character in subroutine'

See to "A FEW NOTES ON UNICODE AND PERL" in JSON::XS.

$JSON::UnMapping
Disable. See to MAPPING.

$JSON::SelfConvert
This option was deleted. Instead of it, if a givien blessed object
has the "TO_JSON" method, "TO_JSON" will be executed with
"convert_blessed".

$json->convert_blessed->encode($bleesed_hashref_or_arrayref)
# if need, call allow_blessed

Note that it was "toJson" in old version, but now not "toJson" but
"TO_JSON".

TODO
eexample programs

THREADS
No test with JSON::PP. If with JSON::XS, See to "THREADS" in JSON::XS.

BUGS
Please report bugs relevant to "JSON" to <makamaka[at]cpan.org>.

SEE ALSO
Most of the document is copied and modified from JSON::XS doc.
JSON::XS, JSON::PP

"RFC4627"(<http://www.ietf.org/rfc/rfc4627.txt>)

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JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

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6.196 json-c 0.12
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6.197 json-c/test-driver 0.12

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#!/bin/sh
# test-driver - basic testsuite driver script.

scriptversion=2012-06-27.10; # UTC

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6.198 json-glib 1.2.8 :1

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### 6.199 JSON-XS 2.26

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6.200 jzmq 3.1.0
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6.201 kerberos 1.13.1

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

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

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

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

The hypothetical commands `show w' and `show c' should show the appropriate
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necessary. Here is a sample; alter the names:

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

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

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

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(which use some of those functions and data) to form executables.

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

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

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writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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

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these notices.

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subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
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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
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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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
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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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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6.204 kmod 23

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"Source code" for a work means the preferred form of the work for
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Nahanni/vshm guest-code

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6.210 libart_lgpl 2.3.20

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6.211 libdnet 1.12

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6.212 libevent 1.4.13-stable

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 */

6.213 libffi 3.2.1

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6.214 libiconv 1.14

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GNU LIBICONV - character set conversion library

This library provides an iconv() implementation, for use on systems which
don't have one, or whose implementation cannot convert from/to Unicode.

It provides support for the encodings:

European languages
- ASCII, ISO-8859-{1,2,3,4,5,7,9,10,13,14,15,16},
- KOI8-R, KOI8-U, KOI8-RU,
- CP{1250,1251,1252,1253,1254,1257}, CP{850,866,1131},
- Mac{Roman,CentralEurope,Iceland,Croatia,Romania},
- Mac{Cyrillic,Ukraine,Greek,Turkish},
- Macintosh

Semitic languages
- ISO-8859-{6,8}, CP{1255,1256}, CP862, Mac{Hebrew,Arabic}

Japanese

Chinese
- EUC-CN, HZ, GBK, CP936, GB18030, EUC-TW, BIG5, CP950, BIG5-HKSCS,
- ISO-2022-CN-EXT

Korean

Armenian
- ARMSCII-8

Georgian
- Georgian-Academy, Georgian-PS

Tajik
- KOI8-T

Kazakh
- PT154, RK1048

Thai
- ISO-8859-11, TIS-620, CP874, MacThai

Laotian
- MuleLao-1, CP1133

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Vietnamese
   VISCI, TCVN, CP1258
Platform specifics
   HP-ROMAN8, NEXTSTEP
Full Unicode
   UTF-8
   UCS-2, UCS-2BE, UCS-2LE
   UCS-4, UCS-4BE, UCS-4LE
   UTF-16, UTF-16BE, UTF-16LE
   UTF-32, UTF-32BE, UTF-32LE
   UTF-7
   C99, JAVA
Full Unicode, in terms of 'uint16_t' or 'uint32_t'
   (with machine dependent endianness and alignment)
   UCS-2-INTERNAL, UCS-4-INTERNAL
Locale dependent, in terms of 'char' or 'wchar_t'
   (with machine dependent endianness and alignment, and with OS and
locale dependent semantics)
   char, wchar_t
   The empty encoding name "" is equivalent to "char": it denotes the
locale dependent character encoding.

When configured with the option --enable-extra-encodings, it also provides
support for a few extra encodings:

   European languages
   CP[437,737,775,852,853,855,857,858,860,861,863,865,869,1125]
   Semitic languages
   CP864
   Japanese
   Chinese
   BIG5-2003 (experimental)
   Turkmen
   TDS565
   Platform specifics
   ATARIST, RISCOS-LATIN1

It can convert from any of these encodings to any other, through Unicode
conversion.

It has also some limited support for transliteration, i.e. when a character
cannot be represented in the target character set, it can be approximated
through one or several similarly looking characters. Transliteration is
activated when "/TRANSLIT" is appended to the target encoding name.

libiconv is for you if your application needs to support multiple character
encodings, but that support lacks from your system.
Installation
------------

As usual for GNU packages:

```bash
$ ./configure --prefix=/usr/local
$ make
$ make install
```

After installing GNU libiconv for the first time, it is recommended to recompile and reinstall GNU gettext, so that it can take advantage of libiconv.

On systems other than GNU/Linux, the `iconv` program will be internationalized only if GNU gettext has been built and installed before GNU libiconv. This means that the first time GNU libiconv is installed, we have a circular dependency between the GNU libiconv and GNU gettext packages, which can be resolved by building and installing either
- first libiconv, then gettext, then libiconv again,
- first gettext, then libiconv, then gettext again.

Recall that before building a package for the second time, you need to erase the traces of the first build by running "make distclean".

This library can be built and installed in two variants:

- The library mode. This works on all systems, and uses a library 'libiconv.so' and a header file '<iconv.h>'. (Both are installed through "make install".)

To use it, simply `#include <iconv.h>` and use the functions.

To use it in an autoconfiguring package:
- If you don't use automake, append `m4/iconv.m4` to your `aclocal.m4` file.
- If you do use automake, add `m4/iconv.m4` to your `m4` macro repository.
- Add to the link command line of libraries and executables that use the functions the placeholder `@LIBICONV@` (or, if using libtool for the link, `@LTLIBICONV@`). If you use automake, the right place for these additions are the `*_LDADD` variables.

Note that 'iconv.m4' is also part of the GNU gettext package, which installs it in `/usr/local/share/aclocal/iconv.m4`.

- The libc plug/override mode. This works on GNU/Linux, Solaris and OSF/1 systems only. It is a way to get good iconv support without having glibc-2.1.
It installs a library 'preloadable_libiconv.so'. This library can be used with LD_PRELOAD, to override the iconv* functions present in the C library.

On GNU/Linux and Solaris:
$ export LD_PRELOAD=/usr/local/lib/preloadable_libiconv.so

On OSF/1:
$ export _RLD_LIST=/usr/local/lib/preloadable_libiconv.so:DEFAULT

A program's source need not be modified, the program need not even be recompiled. Just set the LD_PRELOAD environment variable, that's it!

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Download
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Homepage
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http://www.gnu.org/software/libiconv/

Bug reports to
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<bug-gnu-libiconv@gnu.org>

Bruno Haible <bruno@clisp.org>
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6.219 libpng/gregbook 1.2.56
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
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directing the user to the copy of this License. Also, you must do one
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a) Accompany the work with the complete corresponding
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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
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to use the modified definitions.)

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specified in Subsection 6a, above, for a charge no more
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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6.222 libtasn1 4.13

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

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

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

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

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

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

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

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

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

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

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under the terms of Sections 1 and 2 above provided that you accompany
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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6.223 libusb 1.017

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

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

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

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

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6.224 libusb-compat 0.1.5

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6.225 libwww-perl 5.834

6.225.1 Available under license:

LIBWWW-Perl-5
-----------------

The libwww-perl collection is a set of Perl modules which provides a simple and consistent application programming interface to the World-Wide Web. The main focus of the library is to provide classes and functions that allow you to write WWW clients. The library also contain modules that are of more general use and even classes that help you implement simple HTTP servers.

PREREQUISITES

In order to install and use this package you will need Perl version 5.6 or better. Some modules within this package depend on other packages that are distributed separately from Perl. We recommend that you have the following packages installed before you install libwww-perl:

URI
MIME-Base64
HTML-Tagset
HTML-Parser
libnet
Digest-MD5
Compress-Zlib
If you want to access sites using the https protocol, then you need to install the Crypt::SSL::eay or the IO::Socket::SSL module. The README.SSL file will tell you more about how libwww-perl supports SSL.

INSTALLATION

You install libwww-perl using the normal perl module distribution drill:

perl Makefile.PL
make
make test
make install

If you don't want to install any programs (only the library files) then pass the `--no-programs` option to Makefile.PL:

perl Makefile.PL --no-programs

DOCUMENTATION

See the lib/LWP.pm file for an overview of the library. See the Changes file for recent changes.

POD style documentation is included in all modules and scripts. These are normally converted to manual pages and installed as part of the "make install" process. You should also be able to use the `perldoc` utility to extract and read documentation from the module files directly.

SUPPORT

Bug reports and suggestions for improvements can be sent to the <libwww@perl.org> mailing list. This mailing list is also the place for general discussions and development of the libwww-perl package.

AVAILABILITY

The latest version of libwww-perl is available from CPAN:

http://search.cpan.org/dist/libwww-perl/

If you want to hack on the source it might be a good idea to grab the latest version with git using the command:
git clone git://gitorious.org/libwww-perl/mainline.git lwp

You can also browse the git repository at:

http://gitorious.org/projects/libwww-perl

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6.226 libxml2 2.9.8

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6.227 libxslt 1.1.32

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6.228 lilo 24.2

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6.229 linux kernel 4.14.131

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```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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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
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* 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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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QLogic Linux FC-FCoE Driver

This program includes a device driver for Linux 3.x.
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

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

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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
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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
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directing the user to the copy of this License. Also, you must do one
of these things:

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

b) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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c) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
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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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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
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}
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Open Source Used In Firepower 6.5
Preamble

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cf.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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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
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6.238 lua 5.1.4

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6.239 luajit 2.0.5 :1.0
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6.240 Math-Base85 0.2

6.240.1 Available under license :

README...

===============================================
Math::Base85 Version 0.2
===============================================

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For more information, read the module or rfc1924.txt.

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/path/to/perl Makefile.PL
make
make test
make install

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<one line to give the program’s name and a brief idea of what it does.>
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Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

That's all there is to it!
6.241 Math-BigInt-GMP 1.24

6.241.1 Available under license:

This program is free software; you may redistribute it and/or modify it under the same terms as Perl itself.

Tels <http://bloodgate.com/>

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when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
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necessary. Here a sample; alter the names:

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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
That's all there is to it!

**6.242 Math-Complex 1.56**

**6.242.1 Available under license:**

```yaml
--- #YAML:1.0
name: Math-Complex
version: 1.56
abstract: ~
license: perl
author: ~
generated_by: ExtUtils::MakeMaker version 6.42
distribution_type: module
requires:
  Scalar::Util: 1.11
  Test::More: 0
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
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Appendix: How to Apply These Terms to Your New Programs

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

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

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

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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
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Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

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

That's all there is to it!

6.243 Math-GMP 2.06

6.243.1 Available under license:

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Version 2, June 1991

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a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
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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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6.247 memcached 1.4.39

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6.250 MIME-Types 1.28
6.250.1 Available under license :

--- #YAML:1.0
name: MIME-Types
version: 1.28
abstract: Definition of MIME types
license: perl
author:
  - Mark Overmeer
generated_by: ExtUtils::MakeMaker version 6.42
distribution_type: module
requires:
  Test::More: 0.47
  Test::Pod: 1
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
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6.251 minicom 2.6.1

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Miquel van Smoorenburg.

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BUGS

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SEE ALSO

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<one line to give the program's name and a brief idea of what it does.>  
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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

6.255 Module-Runtime 0.016

6.256 mojolicious 5.28
6.256.1 Available under license :
   The Artistic License 2.0

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```perl
#!/usr/bin/perl
% = 20 + 3
% my $self = shift;
% if ($self->app->mode eq 'development') {
  % = $self->stash('exception')->message
% }
% else {
```
Hello Mojo from the other template <%= $c->url_for %>!

% my $self = shift;
<DOCTYPE html>
<html>
<head></head>
<body>
<%= $self->render_to_string(template => '23') %><%= $self->content %>
</body>
</html>

% my $self = shift;
<DOCTYPE html>
<html>
<head></head>
<body>
Same old in green <%= $self->content %>
</body>
</html>

% {
% my $block = begin %
% my $name = shift; =%
Hello <%= $name %>,
% end %
%= $block->('Baerbel')
%= $block->('Wolfgang')
% shift->stash(layout => 'green');
Seems to work!
Higher precedence!

6.257 msmtp 1.4.31
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**6.258 Ncurses 5.6**

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--
README file for the ncurses package

See the file ANNOUNCE for a summary of ncurses features and ports.
See the file INSTALL for instructions on how to build and install ncurses.
See the file NEWS for a release history and bug-fix notes.
See the file TO-DO for things that still need doing, including known bugs.

Browse the file misc/ncurses-intro.html for narrative descriptions of how
use ncurses and the panel, menu, and form libraries.

Browse the file doc/html/hackguide.html for a tour of the package internals.

ROADMAP AND PACKAGE OVERVIEW:

You should be reading this file in a directory called: ncurses-d.d, where d.d
is the current version number (see the dist.mk file in this directory for
that). There should be a number of subdirectories, including `c++', `form',
`man', `menu', `misc', `ncurses', `panel', `progs', `test', `tack' and `Ada95'.
(The `tack' program may be distributed separately).

A full build/install of this package typically installs several libraries, a
handful of utilities, and a database hierarchy. Here is an inventory of the
pieces:

The libraries are:
libncurses.a   (normal)
libncurses.so  (shared)
libncurses_g.a (debug and trace code enabled)
libncurses_p.a (profiling enabled)

libpanel.a     (normal)
libpanel.so    (shared)
libpanel_g.a   (debug and trace code enabled)

libmenu.a      (normal)
libmenu.so     (shared)
libmenu_g.a    (debug enabled)

libform.a      (normal)
libform.so     (shared)
libform_g.a    (debug enabled)

If you configure using the `--enable-widec` option, a "w" is appended to the library names (e.g., libncursesw.a), and the resulting libraries support wide-characters, e.g., via a UTF-8 locale. The corresponding header files are compatible with the non-wide-character configuration; wide-character features are provided by ifdef's in the header files. The wide-character library interfaces are not binary-compatible with the non-wide-character version.

The ncurses libraries implement the curses API. The panel, menu and forms libraries implement clones of the SVr4 panel, menu and forms APIs. The source code for these lives in the `ncurses', `panel', `menu', and `form' directories respectively.

In the `c++' directory, you'll find code that defines an interface to the curses, forms, menus and panels library packaged as C++ classes, and a demo program in C++ to test it. These class definition modules are not installed by the `make install.libs' rule as libncurses++.

In the `Ada95' directory, you'll find code and documentation for an Ada95 binding of the curses API, to be used with the GNAT compiler. This binding is built by a normal top-level `make' if configure detects an usable version of GNAT (3.11 or above). It is not installed automatically. See the Ada95 directory for more build and installation instructions and for documentation of the binding.

To do its job, the ncurses code needs your terminal type to be set in the environment variable TERM (normally set by your OS; under UNIX, getty(1) typically does this, but you can override it in your .profile); and, it needs a database of terminal descriptions in which to look up your terminal type's capabilities.
In older (V7/BSD) versions of curses, the database was a flat text file, /etc/termcap; in newer (USG/USL) versions, the database is a hierarchy of fast-loading binary description blocks under /usr/lib/terminfo. These binary blocks are compiled from an improved editable text representation called `terminfo' format (documented in man/terminfo.5). The ncurses library can use either /etc/termcap or the compiled binary terminfo blocks, but prefers the second form.

In the `misc' directory, there is a text file terminfo.src, in editable terminfo format, which can be used to generate the terminfo binaries (that's what make install.data does). If the package was built with the --enable-termcap option enabled, and the ncurses library cannot find a terminfo description for your terminal, it will fall back to the termcap file supplied with your system (which the ncurses package installation leaves strictly alone).

The utilities are as follows:

- tic             -- terminfo source to binary compiler
- infocmp         -- terminfo binary to source decompiler/comparator
- clear           -- emits clear-screen for current terminal
- tput            -- shell-script access to terminal capabilities.
- toe             -- table of entries utility
- tset            -- terminal-initialization utility

The first two (tic and infocmp) are used for manipulating terminfo descriptions; the next two (clear and tput) are for use in shell scripts. The last (tset) is provided for 4.4BSD compatibility. The source code for all of these lives in the `progs' directory.

Detailed documentation for all libraries and utilities can be found in the `man' and `doc' directories. An HTML introduction to ncurses, panels, and menus programming lives in the `doc/html' directory. Manpages in HTML format are under `doc/html/man'.

The `test' directory contains programs that can be used to verify or demonstrate the functions of the ncurses libraries. See test/README for descriptions of these programs. Notably, the `ncurses' utility is designed to help you systematically exercise the library functions.

AUTHORS:

Pavel Curtis:
wrote the original ncurses

Zeyd M. Ben-Halim:
port of original to Linux and many enhancements.
Thomas Dickey (maintainer for 1.9.9g through 4.1, resuming with FSF's 5.0):
configuration scripts, porting, mods to adhere to XSI Curses in the
areas of background color, terminal modes. Also memory leak testing,
the wresize, default colors and key definition extensions and numerous
bug fixes (more than half of those enumerated in NEWS beginning with
the internal release 1.8.9).

Florian La Roche (official maintainer for FSF's ncurses 4.2)
Beginning with release 4.2, ncurses is distributed under an MIT-style
license.

Eric S. Raymond:
the man pages, infocmp(1), tput(1), clear(1), captoinfo(1), tset(1),
toe(1), most of tic(1), trace levels, the HTML intro, wgetnstr() and
many other entry points, the cursor-movement optimization, the
scroll-pack optimizer for vertical motions, the mouse interface and
xterm mouse support, and the ncurses test program.

Juergen Pfeifer
The menu and form libraries, C++ bindings for ncurses, menus, forms and
panels, as well as the Ada95 binding. Ongoing support for panel.

CONTRIBUTORS:

Alexander V. Lukyanov
for numerous fixes and improvements to the optimization logic.

David MacKenzie
for first-class bug-chasing and methodical testing.

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for the code that hacks termcap parameterized strings into terminfo.

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for writing and sending the panel library.

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for many patches and testing the optimization code.

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the C++ code.

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for lessons in using sed.

Keith Bostic (maintainer of 4.4BSD curses)
for help, criticism, comments, bug-finding, and being willing to
deep-six BSD curses for this one when it grew up.

Richard Stallman,
for his commitment to making ncurses free software.

Countless other people have contributed by reporting bugs, sending fixes, suggesting improvements, and generally whining about ncurses :-) 

BUGS:
See the INSTALL file for bug and developer-list addresses.
The Hacker's Guide in the doc directory includes some guidelines on how to report bugs in ways that will get them fixed most quickly.

6.259 net tools 1.60
6.259.1 Available under license : 
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file runs, or for standard header files or definitions files that
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<one line to give the program's name and a brief idea of what it does.>
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Gnomovision version 69, Copyright (C) 19xx name of author
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

6.262 Net-CIDR-Lite 0.21

6.262.1 Available under license:
from Lite.pm

<snip>

=head1 COPYRIGHT

This module is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

<snip>
--- #YAML:1.0
name: Net-CIDR-Lite
version: 0.21
abstract: Perl extension for merging IPv4 or IPv6 CIDR addresses

author:
- Douglas Wilson <dougw@cpan.org>

license: unknown

distribution_type: module

configure_requires:
  ExtUtils::MakeMaker: 0

build_requires:
  ExtUtils::MakeMaker: 0

requires: {}

no_index:
directory:
  - t
  - inc

generated_by: ExtUtils::MakeMaker version 6.56

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4

from README

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when it starts in an interactive mode:

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


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

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

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

That's all there is to it!

6.263 Net-DNS 0.68

6.263.1 Available under license :
from /demo/mresolv

<snip>

=head1 COPYRIGHT

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<snip>
from META.yml

--- #YAML:1.0
name: Net-DNS
version: 0.68
abstract: Perl DNS resolver module
author:
  - Olaf Kolkman <olaf@net-dns.org>
license: perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
build_requires:
  ExtUtils::MakeMaker: 0
requires:
  Digest::HMAC_MD5: 1
  Digest::MD5: 2.12
  Digest::SHA: 5.23
  IO::Socket: 0
  MIME::Base64: 2.11
  Test::More: 0.18
no_index:
directory:
  - t
  - inc
generated_by: ExtUtils::MakeMaker version 6.56
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
from README

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

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6.266 Net-IPv6Addr 0.2
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6.267 Net-IPv6Addr/rfc-document 0.2

6.267.1 Available under license:

from rfc2373.txt  This is the addressing architecture specification for IPV6.

<snip>

1.0 INTRODUCTION

This specification defines the addressing architecture of the IP
Version 6 protocol. It includes a detailed description of the
currently defined address formats for IPv6 [IPV6]

<snip>

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<snip>
6.268 Net-SCP-Expect 0.16

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   from Expect.pm
   <snip>

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Daniel Berger

djberg96 at yahoo dot com

<snip>

from META.yml

--- #YAML:1.0
name: Net-SCP-Expect
version: 0.16
abstract: Wrapper for scp that allows passwords via Expect.
license: ~
author:
  - Eric Rybski <rybskej@yahoo.com>
generated_by: ExtUtils::MakeMaker version 6.44
distribution_type: module
requires:
  Expect: 1.14
  Net::IPv6Addr: 0.2
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### 6.269 net-snmp 5.6.2 5.6.2

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1. Introduction

The SNMP Management Framework at the time of this writing consists of five major components:
- An overall architecture, described in STD 62, RFC 3411 [RFC3411].

- Mechanisms for describing and naming objects and events for the purpose of management. The first version of this Structure of Management Information (SMI) is called SMIv1 and described in STD 16, RFC 1155 [RFC1155], STD 16, RFC 1212 [RFC1212] and RFC 1215 [RFC1215]. The second version, called SMIv2, is described in STD 58, RFC 2578 [RFC2578], STD 58, RFC 2579 [RFC2579] and STD 58, RFC 2580 [RFC2580].

- Message protocols for transferring management information. The first version of the SNMP message protocol is called SNMPv1 and described in STD 15, RFC 1157 [RFC1157]. A second version of the SNMP message protocol, which is not an Internet standards track protocol, is called SNMPv2c and described in RFC 1901 [RFC1901] and STD 62, RFC 3417 [RFC3417]. The third version of the message protocol is called SNMPv3 and described in STD 62, RFC 3417 [RFC3417], RFC 3412 [RFC3412] and RFC 3414 [RFC3414].

- Protocol operations for accessing management information. The first set of protocol operations and associated PDU formats is described in STD 15, RFC 1157 [RFC1157]. A second set of protocol operations and associated PDU formats is described in this document.

- A set of fundamental applications described in STD 62, RFC 3413 [RFC3413] and the view-based access control mechanism described in STD 62, RFC 3415 [RFC3415].

A more detailed introduction to the SNMP Management Framework at the time of this writing can be found in RFC 3410 [RFC3410].

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. Objects in the MIB are defined using the mechanisms defined in the SMI.

This document, Version 2 of the Protocol Operations for the Simple Network Management Protocol, defines the operations of the protocol with respect to the sending and receiving of PDUs to be carried by the message protocol.
2. Overview

SNMP entities supporting command generator or notification receiver applications (traditionally called "managers") communicate with SNMP entities supporting command responder or notification originator applications (traditionally called "agents"). The purpose of this protocol is the transport of management information and operations.

2.1. Management Information

The term "variable" refers to an instance of a non-aggregate object type defined according to the conventions set forth in the SMI [RFC2578] or the textual conventions based on the SMI [RFC2579]. The term "variable binding" normally refers to the pairing of the name of a variable and its associated value. However, if certain kinds of exceptional conditions occur during processing of a retrieval request, a variable binding will pair a name and an indication of that exception.

A variable-binding list is a simple list of variable bindings.

The name of a variable is an OBJECT IDENTIFIER which is the concatenation of the OBJECT IDENTIFIER of the corresponding object-type together with an OBJECT IDENTIFIER fragment identifying the instance. The OBJECT IDENTIFIER of the corresponding object-type is called the OBJECT IDENTIFIER prefix of the variable.

2.2. Retransmission of Requests

For all types of request in this protocol, the receiver is required under normal circumstances, to generate and transmit a response to the originator of the request. Whether or not a request should be retransmitted if no corresponding response is received in an appropriate time interval, is at the discretion of the application originating the request. This will normally depend on the urgency of the request. However, such an application needs to act responsibly in respect to the frequency and duration of re-transmissions. See BCP 41 [RFC2914] for discussion of relevant congestion control principles.

2.3. Message Sizes

The maximum size of an SNMP message is limited to the minimum of:

(1) the maximum message size which the destination SNMP entity can
accept; and,

The former may be known on a per-recipient basis; and in the absence of such knowledge, is indicated by transport domain used when sending the message. The latter is imposed by implementation-specific local constraints.

Each transport mapping for the SNMP indicates the minimum message size which a SNMP implementation must be able to produce or consume. Although implementations are encouraged to support larger values whenever possible, a conformant implementation must never generate messages larger than allowed by the receiving SNMP entity.

One of the aims of the GetBulkRequest-PDU, specified in this protocol, is to minimize the number of protocol exchanges required to retrieve a large amount of management information. As such, this PDU type allows an SNMP entity supporting command generator applications to request that the response be as large as possible given the constraints on message sizes. These constraints include the limits on the size of messages which the SNMP entity supporting command responder applications can generate, and the SNMP entity supporting command generator applications can receive.

However, it is possible that such maximum sized messages may be larger than the Path MTU of the path across the network traversed by the messages. In this situation, such messages are subject to fragmentation. Fragmentation is generally considered to be harmful [FRAG], since among other problems, it leads to a decrease in the reliability of the transfer of the messages. Thus, an SNMP entity which sends a GetBulkRequest-PDU must take care to set its parameters accordingly, so as to reduce the risk of fragmentation. In particular, under conditions of network stress, only small values should be used for max-repetitions.

2.4. Transport Mappings
It is important to note that the exchange of SNMP messages requires only an unreliable datagram service, with every message being entirely and independently contained in a single transport datagram. Specific transport mappings and encoding rules are specified elsewhere [RFC3417]. However, the preferred mapping is the use of the User Datagram Protocol [RFC768].

2.5. SMIv2 Data Type Mappings

The SMIv2 [RFC2578] defines 11 base types (INTEGER, OCTET STRING, OBJECT IDENTIFIER, Integer32, IpAddress, Counter32, Gauge32, Unsigned32, TimeTicks, Opaque, Counter64) and the BITS construct. The SMIv2 base types are mapped to the corresponding selection type in the SimpleSyntax and ApplicationSyntax choices of the ASN.1 SNMP protocol definition. Note that the INTEGER and Integer32 SMIv2 base types are mapped to the integer-value selection type of the SimpleSyntax choice. Similarly, the Gauge32 and Unsigned32 SMIv2 base types are mapped to the unsigned-integer-value selection type of the ApplicationSyntax choice.

The SMIv2 BITS construct is mapped to the string-value selection type of the SimpleSyntax choice. A BITS value is encoded as an OCTET STRING, in which all the named bits in (the definition of) the bitstring, commencing with the first bit and proceeding to the last bit, are placed in bits 8 (high order bit) to 1 (low order bit) of the first octet, followed by bits 8 to 1 of each subsequent octet in turn, followed by as many bits as are needed of the final subsequent octet, commencing with bit 8. Remaining bits, if any, of the final octet are set to zero on generation and ignored on receipt.

3. Definitions

The PDU syntax is defined using ASN.1 notation [ASN1].

SNMPv2-PDU DEFINITIONS ::= BEGIN
ObjectName ::= OBJECT IDENTIFIER

ObjectSyntax ::= CHOICE {
    simple       SimpleSyntax,
    application-wide ApplicationSyntax
}

SimpleSyntax ::= CHOICE {
    integer-value   INTEGER (-2147483648..2147483647),
    string-value    OCTET STRING (SIZE (0..65535)),
    objectID-value  OBJECT IDENTIFIER
}

ApplicationSyntax ::= CHOICE {
    ipAddress-value        IpAddress,
    counter-value          Counter32,
    timeticks-value        TimeTicks,
    arbitrary-value        Opaque,
    big-counter-value      Counter64,
    unsigned-integer-value Unsigned32
}

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IpAddress ::= [APPLICATION 0] IMPLICIT OCTET STRING (SIZE (4))

Counter32 ::= [APPLICATION 1] IMPLICIT INTEGER (0..4294967295)

Unsigned32 ::= [APPLICATION 2] IMPLICIT INTEGER (0..4294967295)

Gauge32 ::= Unsigned32

TimeTicks ::= [APPLICATION 3] IMPLICIT INTEGER (0..4294967295)

Opaque ::= [APPLICATION 4] IMPLICIT OCTET STRING

Counter64 ::= [APPLICATION 6]
    IMPLICIT INTEGER (0..18446744073709551615)

-- protocol data units

PDUs ::= CHOICE {
    get-request      GetRequest-PDU,
    get-next-request GetNextRequest-PDU,
    get-bulk-request GetBulkRequest-PDU,
response  Response-PDU,
set-request  SetRequest-PDU,
inform-request  InformRequest-PDU,
snmpV2-trap  SNMPv2-Trap-PDU,
report  Report-PDU }

-- PDUs

GetRequest-PDU ::= [0] IMPLICIT PDU

GetNextRequest-PDU ::= [1] IMPLICIT PDU

Response-PDU ::= [2] IMPLICIT PDU

SetRequest-PDU ::= [3] IMPLICIT PDU

-- [4] is obsolete

GetBulkRequest-PDU ::= [5] IMPLICIT BulkPDU

InformRequest-PDU ::= [6] IMPLICIT PDU

SNMPv2-Trap-PDU ::= [7] IMPLICIT PDU

-- Usage and precise semantics of Report-PDU are not defined
-- in this document. Any SNMP administrative framework making
-- use of this PDU must define its usage and semantics.

max-bindings INTEGER ::= 2147483647

PDU ::= SEQUENCE {
  request-id INTEGER (-214783648..214783647),
  error-status -- sometimes ignored
    INTEGER {
      noError(0),
      tooBig(1),
      noSuchName(2), -- for proxy compatibility
      badValue(3), -- for proxy compatibility
    },
}
readOnly(4), -- for proxy compatibility
genErr(5),
noAccess(6),
wrongType(7),
wrongLength(8),
wrongEncoding(9),
wrongValue(10),
noCreation(11),
inconsistentValue(12),
resourceUnavailable(13),
commitFailed(14),
undoFailed(15),
authorizationError(16),
notWritable(17),
inconsistentName(18) }

error-index -- sometimes ignored
  INTEGER (0..max-bindings),

variable-bindings -- values are sometimes ignored
  VarBindList
}

BulkPDU ::= -- must be identical in
  SEQUENCE { -- structure to PDU
    request-id INTEGER (-214783648..214783647),
    non-repeaters INTEGER (0..max-bindings),
    max-repetitions INTEGER (0..max-bindings),

    variable-bindings -- values are ignored
      VarBindList
  }

-- variable binding

VarBind ::= SEQUENCE {
  name ObjectName,

  CHOICE {
    value ObjectSyntax,
unSpecified NULL, -- in retrieval requests

-- exceptions in responses
noSuchObject [0] IMPLICIT NULL,
noSuchInstance [1] IMPLICIT NULL,
endOfMibView  [2] IMPLICIT NULL
}
}

-- variable-binding list

VarBindList ::= SEQUENCE (SIZE (0..max-bindings)) OF VarBind

END

4. Protocol Specification

4.1. Common Constructs

The value of the request-id field in a Response-PDU takes the value of the request-id field in the request PDU to which it is a response. By use of the request-id value, an application can distinguish the (potentially multiple) outstanding requests, and thereby correlate incoming responses with outstanding requests. In cases where an unreliable datagram service is used, the request-id also provides a simple means of identifying messages duplicated by the network. Use of the same request-id on a retransmission of a request allows the response to either the original transmission or the retransmission to satisfy the request. However, in order to calculate the round trip time for transmission and processing of a request-response transaction, the application needs to use a different request-id value on a retransmitted request. The latter strategy is recommended for use in the majority of situations.

A non-zero value of the error-status field in a Response-PDU is used to indicate that an error occurred to prevent the processing of the request. In these cases, a non-zero value of the Response-PDU’s error-index field provides additional information by identifying which variable binding in the list caused the error. A variable binding is identified by its index value. The first variable binding in a variable-binding list is index one, the second is index two, etc.
SNMP limits OBJECT IDENTIFIER values to a maximum of 128 sub-identifiers, where each sub-identifier has a maximum value of \(2^{32}-1\).

4.2. PDU Processing

In the elements of procedure below, any field of a PDU which is not referenced by the relevant procedure is ignored by the receiving SNMP entity. However, all components of a PDU, including those whose values are ignored by the receiving SNMP entity, must have valid ASN.1 syntax and encoding. For example, some PDUs (e.g., the GetRequest-PDU) are concerned only with the name of a variable and not its value. In this case, the value portion of the variable binding is ignored by the receiving SNMP entity. The unSpecified value is defined for use as the value portion of such bindings.

On generating a management communication, the message "wrapper" to encapsulate the PDU is generated according to the "Elements of Procedure" of the administrative framework in use. The definition of "max-bindings" imposes an upper bound on the number of variable bindings. In practice, the size of a message is also limited by constraints on the maximum message size. A compliant implementation must support as many variable bindings in a PDU or BulkPDU as fit into the overall maximum message size limit of the SNMP engine, but no more than 2147483647 variable bindings.

On receiving a management communication, the "Elements of Procedure" of the administrative framework in use is followed, and if those procedures indicate that the operation contained within the message is to be performed locally, then those procedures also indicate the MIB view which is visible to the operation.

4.2.1. The GetRequest-PDU

A GetRequest-PDU is generated and transmitted at the request of an application.

Upon receipt of a GetRequest-PDU, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU. All fields of the Response-PDU have the same values as the corresponding fields of the received request except as indicated below. Each variable binding is processed as follows:

(1) If the variable binding's name exactly matches the name of a variable accessible by this request, then the variable
binding's value field is set to the value of the named variable.

(2) Otherwise, if the variable binding's name does not have an OBJECT IDENTIFIER prefix which exactly matches the OBJECT IDENTIFIER prefix of any (potential) variable accessible by this request, then its value field is set to "noSuchObject".

(3) Otherwise, the variable binding's value field is set to "noSuchInstance".

If the processing of any variable binding fails for a reason other than listed above, then the Response-PDU is re-formatted with the same values in its request-id and variable-bindings fields as the received GetRequest-PDU, with the value of its error-status field set to "genErr", and the value of its error-index field is set to the index of the failed variable binding.

Otherwise, the value of the Response-PDU's error-status field is set to "noError", and the value of its error-index field is zero.

The generated Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetRequest-PDU.

Otherwise, an alternate Response-PDU is generated. This alternate Response-PDU is formatted with the same value in its request-id field as the received GetRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded.

4.2.2. The GetNextRequest-PDU
A GetNextRequest-PDU is generated and transmitted at the request of an application.

Upon receipt of a GetNextRequest-PDU, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU. All fields of the Response-PDU have the same values as the corresponding fields of the received request except as indicated below. Each variable binding is processed as follows:

1. The variable is located which is in the lexicographically ordered list of the names of all variables which are accessible by this request and whose name is the first lexicographic successor of the variable binding’s name in the incoming GetNextRequest-PDU. The corresponding variable binding’s name and value fields in the Response-PDU are set to the name and value of the located variable.

2. If the requested variable binding’s name does not lexicographically precede the name of any variable accessible by this request, i.e., there is no lexicographic successor, then the corresponding variable binding produced in the Response-PDU has its value field set to "endOfMibView", and its name field set to the variable binding’s name in the request.

If the processing of any variable binding fails for a reason other than listed above, then the Response-PDU is re-formatted with the same values in its request-id and variable-bindings fields as the received GetNextRequest-PDU, with the value of its error-status field set to "genErr", and the value of its error-index field is set to the index of the failed variable binding.

Otherwise, the value of the Response-PDU’s error-status field is set to "noError", and the value of its error-index field is zero.

The generated Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetNextRequest-PDU.
Otherwise, an alternate Response-PDU is generated. This alternate Response-PDU is formatted with the same values in its request-id field as the received GetNextRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetNextRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded.

4.2.2.1. Example of Table Traversal

An important use of the GetNextRequest-PDU is the traversal of conceptual tables of information within a MIB. The semantics of this type of request, together with the method of identifying individual instances of objects in the MIB, provides access to related objects in the MIB as if they enjoyed a tabular organization.

In the protocol exchange sketched below, an application retrieves the media-dependent physical address and the address-mapping type for each entry in the IP net-to-media Address Translation Table [RFC1213] of a particular network element. It also retrieves the value of sysUpTime [RFC3418], at which the mappings existed. Suppose that the command responder's IP net-to-media table has three entries:

<table>
<thead>
<tr>
<th>Interface-Number</th>
<th>Network-Address</th>
<th>Physical-Address</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10.0.0.51</td>
<td>00:00:10:01:23:45</td>
<td>static</td>
</tr>
<tr>
<td>1</td>
<td>9.2.3.4</td>
<td>00:00:10:54:32:10</td>
<td>dynamic</td>
</tr>
<tr>
<td>2</td>
<td>10.0.0.15</td>
<td>00:00:10:98:76:54</td>
<td>dynamic</td>
</tr>
</tbody>
</table>

The SNMP entity supporting a command generator application begins by sending a GetNextRequest-PDU containing the indicated OBJECT IDENTIFIER values as the requested variable names:

GetNextRequest ( sysUpTime, 
ipNetToMediaPhysAddress, 
ipNetToMediaType )
The SNMP entity supporting a command responder application responds with a Response-PDU:

Response (( sysUpTime.0 = "123456" ),
    ( ipNetToMediaPhysAddress.1.9.2.3.4 = "000010543210" ),
    ( ipNetToMediaType.1.9.2.3.4 = "dynamic" ))

The SNMP entity supporting the command generator application continues with:

getNextRequest ( sysUpTime,
    ipNetToMediaPhysAddress.1.9.2.3.4,
    ipNetToMediaType.1.9.2.3.4 )

The SNMP entity supporting the command responder application responds with:

Response (( sysUpTime.0 = "123461" ),
    ( ipNetToMediaPhysAddress.1.10.0.0.51 = "000010012345" ),
    ( ipNetToMediaType.1.10.0.0.51 = "static" ))

The SNMP entity supporting the command generator application continues with:

getNextRequest ( sysUpTime,
    ipNetToMediaPhysAddress.1.10.0.0.51,
    ipNetToMediaType.1.10.0.0.51 )

The SNMP entity supporting the command responder application responds with:

Response (( sysUpTime.0 = "123466" ),
    ( ipNetToMediaPhysAddress.2.10.0.0.15 = "000010987654" ),
    ( ipNetToMediaType.2.10.0.0.15 = "dynamic" ))

The SNMP entity supporting the command generator application continues with:

getNextRequest ( sysUpTime,
    ipNetToMediaPhysAddress.2.10.0.0.15,
    ipNetToMediaType.2.10.0.0.15 )
As there are no further entries in the table, the SNMP entity supporting the command responder application responds with the variables that are next in the lexicographical ordering of the accessible object names, for example:

Response (( sysUpTime.0 = "123471" ),
          ( ipNetToMediaNetAddress.1.9.2.3.4 = "9.2.3.4" ),
          ( ipRoutingDiscards.0 = "2" ))

Note how, having reached the end of the column for ipNetToMediaPhysAddress, the second variable binding from the command responder application has now "wrapped" to the first row in the next column. Furthermore, note how, having reached the end of the ipNetToMediaTable for the third variable binding, the command responder application has responded with the next available object, which is outside that table. This response signals the end of the table to the command generator application.

4.2.3. The GetBulkRequest-PDU

A GetBulkRequest-PDU is generated and transmitted at the request of an application. The purpose of the GetBulkRequest-PDU is to request the transfer of a potentially large amount of data, including, but not limited to, the efficient and rapid retrieval of large tables.

Upon receipt of a GetBulkRequest-PDU, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU with its request-id field having the same value as in the request.

For the GetBulkRequest-PDU type, the successful processing of each variable binding in the request generates zero or more variable bindings in the Response-PDU. That is, the one-to-one mapping between the variable bindings of the GetRequest-PDU, GetNextRequest-PDU, and SetRequest-PDU types and the resultant Response-PDUs does not apply for the mapping between the variable bindings of a GetBulkRequest-PDU and the resultant Response-PDU.

The values of the non-repeaters and max-repetitions fields in the
request specify the processing requested. One variable binding in
the Response-PDU is requested for the first N variable bindings in
the request and M variable bindings are requested for each of the R
remaining variable bindings in the request. Consequently, the total
number of requested variable bindings communicated by the request is
given by N + (M * R), where N is the minimum of: a) the value of the
non-repeaters field in the request, and b) the number of variable
bindings in the request; M is the value of the max-repetitions field
in the request; and R is the maximum of: a) number of variable
bindings in the request - N, and b) zero.

The receiving SNMP entity produces a Response-PDU with up to the
total number of requested variable bindings communicated by the
request. The request-id shall have the same value as the received
GetBulkRequest-PDU.

If N is greater than zero, the first through the (N)-th variable
bindings of the Response-PDU are each produced as follows:

(1) The variable is located which is in the lexicographically
ordered list of the names of all variables which are accessible
by this request and whose name is the first lexicographic
successor of the variable binding’s name in the incoming
GetBulkRequest-PDU. The corresponding variable binding’s name
and value fields in the Response-PDU are set to the name and
value of the located variable.

(2) If the requested variable binding’s name does not
lexicographically precede the name of any variable accessible
by this request, i.e., there is no lexicographic successor,
then the corresponding variable binding produced in the
Response-PDU has its value field set to “endOfMibView”, and its
name field set to the variable binding’s name in the request.

If M and R are non-zero, the (N + 1)-th and subsequent variable
bindings of the Response-PDU are each produced in a similar manner.
For each iteration i, such that i is greater than zero and less than
or equal to M, and for each repeated variable, r, such that r is
greater than zero and less than or equal to R, the (N + ( (i-1) * R )
+ r)-th variable binding of the Response-PDU is produced as follows:
(1) The variable which is in the lexicographically ordered list of
the names of all variables which are accessible by this request
and whose name is the (i)-th lexicographic successor of the (N + r)-th variable binding's name in the incoming
GetBulkRequest-PDU is located and the variable binding's name
and value fields are set to the name and value of the located
variable.

(2) If there is no (i)-th lexicographic successor, then the
    corresponding variable binding produced in the Response-PDU has
    its value field set to "endOfMibView", and its name field set
to either the last lexicographic successor, or if there are no
    lexicographic successors, to the (N + r)-th variable binding's
    name in the request.

While the maximum number of variable bindings in the Response-PDU is
bounded by N + (M * R), the response may be generated with a lesser
number of variable bindings (possibly zero) for either of three
reasons.

(1) If the size of the message encapsulating the Response-PDU
    containing the requested number of variable bindings would be
    greater than either a local constraint or the maximum message
    size of the originator, then the response is generated with a
    lesser number of variable bindings. This lesser number is the
    ordered set of variable bindings with some of the variable
    bindings at the end of the set removed, such that the size of
    the message encapsulating the Response-PDU is approximately
equal to but no greater than either a local constraint or the
    maximum message size of the originator. Note that the number
    of variable bindings removed has no relationship to the values
    of N, M, or R.

(2) The response may also be generated with a lesser number of
    variable bindings if for some value of iteration i, such that i
    is greater than zero and less than or equal to M, that all of
    the generated variable bindings have the value field set to
    "endOfMibView". In this case, the variable bindings may be
    truncated after the (N + (i * R))-th variable binding.

(3) In the event that the processing of a request with many
    repetitions requires a significantly greater amount of
    processing time than a normal request, then a command responder
    application may terminate the request with less than the full
    number of repetitions, providing at least one repetition is
If the processing of any variable binding fails for a reason other than listed above, then the Response-PDU is re-formatted with the same values in its request-id and variable-bindings fields as the received GetBulkRequest-PDU, with the value of its error-status field set to "genErr", and the value of its error-index field is set to the index of the variable binding in the original request which corresponds to the failed variable binding.

Otherwise, the value of the Response-PDU's error-status field is set to "noError", and the value of its error-index field to zero.

The generated Response-PDU (possibly with an empty variable-bindings field) is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the GetBulkRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded.

4.2.3.1. Another Example of Table Traversal

This example demonstrates how the GetBulkRequest-PDU can be used as an alternative to the GetNextRequest-PDU. The same traversal of the IP net-to-media table as shown in Section 4.2.2.1 is achieved with fewer exchanges.

The SNMP entity supporting the command generator application begins by sending a GetBulkRequest-PDU with the modest max-repetitions value of 2, and containing the indicated OBJECT IDENTIFIER values as the requested variable names:

GetBulkRequest [ non-repeaters = 1, max-repetitions = 2 ]
  ( sysUpTime,
    ipNetToMediaPhysAddress,
    ipNetToMediaType )

The SNMP entity supporting the command responder application responds
with a Response-PDU:

Response (( sysUpTime.0 = "123456" ),
   ( ipNetToMediaPhysAddress.1.9.2.3.4 = "000010543210" ),
   ( ipNetToMediaType.1.9.2.3.4 = "dynamic" ),
   ( ipNetToMediaPhysAddress.1.10.0.0.51 = "000010012345" ),
   ( ipNetToMediaType.1.10.0.0.51 = "static" ))

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The SNMP entity supporting the command generator application
continues with:

GetBulkRequest [ non-repeaters = 1, max-repetitions = 2 ]
   ( sysUpTime,
     ipNetToMediaPhysAddress.1.10.0.0.51,
     ipNetToMediaType.1.10.0.0.51 )

The SNMP entity supporting the command responder application responds
with:

Response (( sysUpTime.0 = "123466" ),
   ( ipNetToMediaPhysAddress.2.10.0.0.15 = "000010987654" ),
   ( ipNetToMediaType.2.10.0.0.15 = "dynamic" ),
   ( ipNetToMediaNetAddress.1.9.2.3.4 = "9.2.3.4" ),
   ( ipRoutingDiscards.0 = "2" ))

Note how, as in the first example, the variable bindings in the
response indicate that the end of the table has been reached. The
fourth variable binding does so by returning information from the
next available column; the fifth variable binding does so by
returning information from the first available object
lexicographically following the table. This response signals the end
of the table to the command generator application.

4.2.4. The Response-PDU

The Response-PDU is generated by an SNMP entity only upon receipt of
a GetRequest-PDU, GetNextRequest-PDU, GetBulkRequest-PDU,
SetRequest-PDU, or InformRequest-PDU, as described elsewhere in this document.

If the error-status field of the Response-PDU is non-zero, the value fields of the variable bindings in the variable binding list are ignored.

If both the error-status field and the error-index field of the Response-PDU are non-zero, then the value of the error-index field is the index of the variable binding (in the variable-binding list of the corresponding request) for which the request failed. The first variable binding in a request's variable-binding list is index one, the second is index two, etc.

A compliant SNMP entity supporting a command generator application must be able to properly receive and handle a Response-PDU with an error-status field equal to "noSuchName", "badValue", or "readOnly". (See sections 1.3 and 4.3 of [RFC2576].)

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Upon receipt of a Response-PDU, the receiving SNMP entity presents its contents to the application which generated the request with the same request-id value. For more details, see [RFC3412].

4.2.5. The SetRequest-PDU

A SetRequest-PDU is generated and transmitted at the request of an application.

Upon receipt of a SetRequest-PDU, the receiving SNMP entity determines the size of a message encapsulating a Response-PDU having the same values in its request-id and variable-bindings fields as the received SetRequest-PDU, and the largest possible sizes of the error-status and error-index fields. If the determined message size is greater than either a local constraint or the maximum message size of the originator, then an alternate Response-PDU is generated, transmitted to the originator of the SetRequest-PDU, and processing of the SetRequest-PDU terminates immediately thereafter. This alternate Response-PDU is formatted with the same values in its request-id field as the received SetRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index
field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the SetRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded. Regardless, processing of the SetRequest-PDU terminates.

Otherwise, the receiving SNMP entity processes each variable binding in the variable-binding list to produce a Response-PDU. All fields of the Response-PDU have the same values as the corresponding fields of the received request except as indicated below.

The variable bindings are conceptually processed as a two phase operation. In the first phase, each variable binding is validated; if all validations are successful, then each variable is altered in the second phase. Of course, implementors are at liberty to implement either the first, or second, or both, of these conceptual phases as multiple implementation phases. Indeed, such multiple implementation phases may be necessary in some cases to ensure consistency.

The following validations are performed in the first phase on each variable binding until they are all successful, or until one fails:

1. If the variable binding's name specifies an existing or non-existent variable to which this request is/would be denied access because it is/would not be in the appropriate MIB view, then the value of the Response-PDU's error-status field is set to "noAccess", and the value of its error-index field is set to the index of the failed variable binding.

2. Otherwise, if there are no variables which share the same OBJECT IDENTIFIER prefix as the variable binding's name, and which are able to be created or modified no matter what new
value is specified, then the value of the Response-PDU's error-status field is set to "notWritable", and the value of its error-index field is set to the index of the failed variable binding.

(3) Otherwise, if the variable binding's value field specifies, according to the ASN.1 language, a type which is inconsistent with that required for all variables which share the same OBJECT IDENTIFIER prefix as the variable binding's name, then the value of the Response-PDU's error-status field is set to "wrongType", and the value of its error-index field is set to the index of the failed variable binding.

(4) Otherwise, if the variable binding's value field specifies, according to the ASN.1 language, a length which is inconsistent with that required for all variables which share the same OBJECT IDENTIFIER prefix as the variable binding's name, then the value of the Response-PDU's error-status field is set to "wrongLength", and the value of its error-index field is set to the index of the failed variable binding.

(5) Otherwise, if the variable binding's value field contains an ASN.1 encoding which is inconsistent with that field's ASN.1 tag, then the value of the Response-PDU's error-status field is set to "wrongEncoding", and the value of its error-index field is set to the index of the failed variable binding. (Note that not all implementation strategies will generate this error.)

(6) Otherwise, if the variable binding's value field specifies a value which could under no circumstances be assigned to the variable, then the value of the Response-PDU's error-status field is set to "wrongValue", and the value of its error-index field is set to the index of the failed variable binding.

(7) Otherwise, if the variable binding's name specifies a variable which does not exist and could not ever be created (even though some variables sharing the same OBJECT IDENTIFIER prefix might under some circumstances be able to be created), then the value of the Response-PDU's error-status field is set to
"noCreation", and the value of its error-index field is set to the index of the failed variable binding.

(8) Otherwise, if the variable binding's name specifies a variable which does not exist but can not be created under the present circumstances (even though it could be created under other circumstances), then the value of the Response-PDU's error-status field is set to "inconsistentName", and the value of its error-index field is set to the index of the failed variable binding.

(9) Otherwise, if the variable binding's name specifies a variable which exists but can not be modified no matter what new value is specified, then the value of the Response-PDU's error-status field is set to "notWritable", and the value of its error-index field is set to the index of the failed variable binding.

(10) Otherwise, if the variable binding's value field specifies a value that could under other circumstances be held by the variable, but is presently inconsistent or otherwise unable to be assigned to the variable, then the value of the Response-PDU's error-status field is set to "inconsistentValue", and the value of its error-index field is set to the index of the failed variable binding.

(11) When, during the above steps, the assignment of the value specified by the variable binding's value field to the specified variable requires the allocation of a resource which is presently unavailable, then the value of the Response-PDU's error-status field is set to "resourceUnavailable", and the value of its error-index field is set to the index of the failed variable binding.

(12) If the processing of the variable binding fails for a reason other than listed above, then the value of the Response-PDU's error-status field is set to "genErr", and the value of its error-index field is set to the index of the failed variable binding.

(13) Otherwise, the validation of the variable binding succeeds.
At the end of the first phase, if the validation of all variable bindings succeeded, then the value of the Response-PDU’s error-status field is set to "noError" and the value of its error-index field is zero, and processing continues as follows.

For each variable binding in the request, the named variable is created if necessary, and the specified value is assigned to it. Each of these variable assignments occurs as if simultaneously with respect to all other assignments specified in the same request. However, if the same variable is named more than once in a single request, with different associated values, then the actual assignment made to that variable is implementation-specific.

If any of these assignments fail (even after all the previous validations), then all other assignments are undone, and the Response-PDU is modified to have the value of its error-status field set to "commitFailed", and the value of its error-index field set to the index of the failed variable binding.

If and only if it is not possible to undo all the assignments, then the Response-PDU is modified to have the value of its error-status field set to "undoFailed", and the value of its error-index field is set to zero. Note that implementations are strongly encouraged to take all possible measures to avoid use of either "commitFailed" or "undoFailed" - these two error-status codes are not to be taken as license to take the easy way out in an implementation.

Finally, the generated Response-PDU is encapsulated into a message, and transmitted to the originator of the SetRequest-PDU.

4.2.6. The SNMPv2-Trap-PDU

An SNMPv2-Trap-PDU is generated and transmitted by an SNMP entity on behalf of a notification originator application. The SNMPv2-Trap-PDU is often used to notify a notification receiver application at a logically remote SNMP entity that an event has occurred or that a condition is present. There is no confirmation associated with this notification delivery mechanism.

The destination(s) to which an SNMPv2-Trap-PDU is sent is determined in an implementation-dependent fashion by the SNMP entity. The first two variable bindings in the variable binding list of an SNMPv2-Trap-PDU are sysUpTime.0 [RFC3418] and snmpTrapOID.0 [RFC3418] respectively. If the OBJECTS clause is present in the invocation of the corresponding NOTIFICATION-TYPE macro, then each corresponding
variable, as instantiated by this notification, is copied, in order,

4.2.7. The InformRequest-PDU

An InformRequest-PDU is generated and transmitted by an SNMP entity on behalf of a notification originator application. The InformRequest-PDU is often used to notify a notification receiver application that an event has occurred or that a condition is present. This is a confirmed notification delivery mechanism, although there is, of course, no guarantee of delivery.

The destination(s) to which an InformRequest-PDU is sent is specified by the notification originator application. The first two variable bindings in the variable binding list of an InformRequest-PDU are sysUpTime.0 [RFC3418] and snmpTrapOID.0 [RFC3418] respectively. If the OBJECTS clause is present in the invocation of the corresponding NOTIFICATION-TYPE macro, then each corresponding variable, as instantiated by this notification, is copied, in order, to the variable-bindings field. If any additional variables are being included (at the option of the generating SNMP entity), then each is copied to the variable-bindings field.

Upon receipt of an InformRequest-PDU, the receiving SNMP entity determines the size of a message encapsulating a Response-PDU with the same values in its request-id, error-status, error-index and variable-bindings fields as the received InformRequest-PDU. If the determined message size is greater than either a local constraint or the maximum message size of the originator, then an alternate Response-PDU is generated, transmitted to the originator of the InformRequest-PDU, and processing of the InformRequest-PDU terminates immediately thereafter. This alternate Response-PDU is formatted with the same values in its request-id field as the received InformRequest-PDU, with the value of its error-status field set to "tooBig", the value of its error-index field set to zero, and an empty variable-bindings field. This alternate Response-PDU is then
encapsulated into a message. If the size of the resultant message is less than or equal to both a local constraint and the maximum message size of the originator, it is transmitted to the originator of the InformRequest-PDU. Otherwise, the snmpSilentDrops [RFC3418] counter is incremented and the resultant message is discarded. Regardless, processing of the InformRequest-PDU terminates.

Otherwise, the receiving SNMP entity:

(1) presents its contents to the appropriate application;

(2) generates a Response-PDU with the same values in its request-id and variable-bindings fields as the received InformRequest-PDU, with the value of its error-status field set to "noError" and the value of its error-index field set to zero; and

(3) transmits the generated Response-PDU to the originator of the InformRequest-PDU.

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6. Acknowledgments

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Presuhn, et al. Standards Track [Page 24]

RFC 3416 Protocol Operations for SNMP December 2002

This version of the document, edited by Randy Presuhn, was initially based on the work of a design team whose members were:

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7. Security Considerations

The protocol defined in this document by itself does not provide a secure environment. Even if the network itself is secure (for example by using IPSec), there is no control as to who on the secure network is allowed access to management information.

It is recommended that the implementors consider the security features as provided by the SNMPv3 framework. Specifically, the use

It is then a customer/user responsibility to ensure that the SNMP entity is properly configured so that:

- only those principals (users) having legitimate rights can access or modify the values of any MIB objects supported by that entity;

- the occurrence of particular events on the entity will be communicated appropriately;

- the entity responds appropriately and with due credence to events and information that have been communicated to it.

8. References

8.1. Normative References


8.2. Informative References

9. Changes from RFC 1905

These are the changes from RFC 1905:

- Corrected spelling error in copyright statement;

- Updated copyright date;
- Updated with new editor's name and contact information;

- Added notice on intellectual property;

- Cosmetic fixes to layout and typography;

- Added table of contents;

- Title changed;

- Updated document headers and footers;

- Deleted the old clause 2.3, entitled "Access to Management Information";

- Changed the way in which request-id was defined, though with the same ultimate syntax and semantics, to avoid coupling with SMI. This does not affect the protocol in any way;

- Replaced the word "exception" with the word "error" in the old clause 4.1. This does not affect the protocol in any way;

- Deleted the first two paragraphs of the old clause 4.2;

- Clarified the maximum number of variable bindings that an implementation must support in a PDU. This does not affect the protocol in any way;

- Replaced occurrences of "SNMPv2 application" with "application";

- Deleted three sentences in old clause 4.2.3 describing the handling of an impossible situation. This does not affect the protocol in any way;

- Clarified the use of the SNMPv2-Trap-Pdu in the old clause 4.2.6. This does not affect the protocol in any way;

- Aligned description of the use of the InformRequest-Pdu in old clause 4.2.7 with the architecture. This does not affect the protocol in any way;
- Updated references;

- Re-wrote introduction clause;

- Replaced manager/agent/SNMPv2 entity terminology with terminology from RFC 2571. This does not affect the protocol in any way;

- Eliminated IMPORTS from the SMI, replaced with equivalent in-line ASN.1. This does not affect the protocol in any way;

- Added notes calling attention to two different manifestations of reaching the end of a table in the table walk examples;

- Added content to security considerations clause;

- Updated ASN.1 comment on use of Report-PDU. This does not affect the protocol in any way;

- Updated acknowledgments section;

- Included information on handling of BITS;

- Deleted spurious comma in ASN.1 definition of PDUs;

- Added abstract;

- Made handling of additional variable bindings in informs consistent with that for traps. This was a correction of an editorial oversight, and reflects implementation practice;

- Added reference to RFC 2914.

10. Editor's Address

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This version of this MIB module is part of RFC 5591; see the RFC itself for full legal notices.”

REVISION "200906090000Z"
DESCRIPTION "The initial version, published in RFC 5591."
 ::= { mib-2 190 }

-- ---------------------------------------------------------- --
-- subtrees in the SNMP-TSM-MIB
-- ---------------------------------------------------------- --

snmpTsmNotifications OBJECT IDENTIFIER ::= { snmpTsmMIB 0 }
snmpTsmMIBObjects  OBJECT IDENTIFIER ::= { snmpTsmMIB 1 }
snmpTsmConformance OBJECT IDENTIFIER ::= { snmpTsmMIB 2 }

-- ---------------------------------------------------------- --
-- Objects
-- ---------------------------------------------------------- --

-- Statistics for the Transport Security Model
snmpTsmStats OBJECT IDENTIFIER ::= { snmpTsmMIBObjects 1 }

snmpTsmInvalidCaches OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The number of incoming messages dropped because the tmStateReference referred to an invalid cache."
 ::= { snmpTsmStats 1 }

snmpTsmInadequateSecurityLevels OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The number of incoming messages dropped because the securityLevel asserted by the Transport Model was less than the securityLevel requested by the application."
 ::= { snmpTsmStats 2 }

snmpTsmUnknownPrefixes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The number of messages dropped because snmpTsmConfigurationUsePrefix was set to true and there is no known prefix for the specified transport domain."
 ::= { snmpTsmStats 3 }

snmpTsmInvalidPrefixes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The number of messages dropped because the securityName associated with an outgoing message did not contain a valid transport domain prefix."
 ::= { snmpTsmStats 4 }

-- Configuration
-- -------------------------------------------------------------
-- Configuration for the Transport Security Model

snmpTsmConfiguration OBJECT IDENTIFIER ::= { snmpTsmMIBObjects 2 }

snmpTsmConfigurationUsePrefix OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION "If this object is set to true, then securityNames
    passing to and from the application are expected to
    contain a transport-domain-specific prefix. If this
    object is set to true, then a domain-specific prefix
    will be added by the TSM to the securityName for
    incoming messages and removed from the securityName
    when processing outgoing messages. Transport domains
    and prefixes are maintained in a registry by IANA.
    This object SHOULD persist across system reboots.
"
DEFVAL { false }
 ::= { snmpTsmConfiguration 1 }

-- snmpTsmMIB - Conformance Information

snmpTsmCompliances OBJECT IDENTIFIER ::= { snmpTsmConformance 1 }

snmpTsmGroups OBJECT IDENTIFIER ::= { snmpTsmConformance 2 }

snmpTsmCompliance MODULE-COMPLIANCE
STATUS current
DESCRIPTION "The compliance statement for SNMP engines that support
the SNMP-TSM-MIB.
"
MODULE
    MANDATORY-GROUPS { snmpTsmGroup }
 ::= { snmpTsmCompliances 1 }

-- Units of conformance

snmpTsmGroup OBJECT-GROUP
OBJECTS {
    snmpTsmInvalidCaches,
status current
DESCRIPTION "A collection of objects for maintaining
information of an SNMP engine that implements
the SNMP Transport Security Model."
::= { snmpTsmGroups 2 }

END

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6.271 Net-SSLeay 1.55

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from /lib/Net/SSLeay.pm

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#
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#
# $Id: SSLeay.pm 378 2013-06-07 22:29:53Z mikem-guest $
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6.272 Net-Telnet 3.03
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## See user documentation at the end of this file.  Search for =head

use strict;
require 5.002;

## Module export.
use vars qw(@EXPORT_OK);
@EXPORT_OK = qw(TELNET_IAC TELNET_DONT TELNET_DO TELNET_WONT TELNET_WILL
TELNET_SB TELNET_GA TELNET_EL TELNET_EC TELNET_AYT TELNET_AO
TELNET_IP TELNET_BREAK TELNET_DM TELNET_NOP TELNET_SE
TELNET_EOR TELNET_ABORT TELNET_SUSP TELNET_EOF TELNET_SYNCH
TELOPT_BINARY TELOPT_ECHO TELOPT_RCP TELOPT_SGA TELOPT_NAMS
TELOPT_STATUS TELOPT_TM TELOPT_RCTE TELOPT_NAOL TELOPT_NAOP
TELOPT_NAOCR TELOPT_NAOHTS TELOPT_NAOHTD TELOPT_NAOFFD
TELOPT_NAOVTS TELOPT_NAOVTD TELOPT_NAOLFD TELOPT_XASCII
TELOPT_LOGOUT TELOPT_BM TELOPT_DET TELOPT_SUPDUP
TELOPT_SUPDUPOUTPUT TELOPT_SNDLOC TELOPT_TTYPE TELOPT_EOR
TELOPT_TUID TELOPT_OUTMRK TELOPT_TTYLOC TELOPT_3270REGIME
TELOPT_X3PAD TELOPT_NAWS TELOPT_TSPEED TELOPT_LFLOW
TELOPT_LINEMODE TELOPT_XDISPL TELOPT_OLD_ENVIRON
TELOPT_AUTHENTICATION TELOPT_ENCRYPT TELOPT_NEW_ENVIRON
TELOPT_EXOPL);

## Module import.
use Exporter ();
use Socket qw(AF_INET SOCK_STREAM inet_aton sockaddr_in);
use Symbol qw(qualify);

## Base classes.
use vars qw(@ISA);
@ISA = qw(Exporter);
if (&_io_socket_include) {  # successfully required module IO::Socket
    push @ISA, "IO::Socket::INET";
} else {  # perl version < 5.004
    require FileHandle;
    push @ISA, "FileHandle";
}

## Global variables.
use vars qw($VERSION @Telopts);
$VERSION = "3.03";

############################################################### Public Methods ###################################################

sub new {
    my ($class) = @_; 
    my ( 
        $errmode, 
        $fh_open, 
        $host, 
        $self, 
        %$args, 
    ); 
    local $_; 

    ## Create a new object with defaults. 
    $self = $class->SUPER::new; 
    *$self->{net_telnet} = {
        bin_mode     => 0, 
        blksize      => &_optimal_blksize(), 
        buf          => "", 
        cmd_prompt   => '/[\$%#>] $/', 
        cmd_rm_mode  => "auto", 
        dumplog      => "", 
        eofile       => 1, 
        errormode    => "die", 
        errormsg     => "", 
        fdmask       => "", 
        host         => "localhost", 
        inputlog     => "", 
        last_line    => "", 
        last_prompt  => "", 
        maxbufsize   => 1_048_576, 
        num_wrote    => 0, 
        ofs          => "", 
        opened       => "", 
        opt_cback    => "", 
        opt_log      => "", 
        opts         => {} 
    ); 
}
ors => "\n",
outputlog => "",
pending_errormsg => "",
port => 23,
pushback_buf => "",
rs => "\n",
subopt_cback => "",
telnet_mode => 1,
time_out => 10,
timedout => "",
unsent_opts => "",
);

## Indicate that we'll accept an offer from remote side for it to echo
## and suppress go aheads.
&_opt_accept($self,
{ option => &TELOPT_ECHO,
is_remote => 1,
is_enable => 1 },
{ option => &TELOPT_SGA,
is_remote => 1,
is_enable => 1 },
);

## Parse the args.
if (@_ == 2) { # one positional arg given
$host = $_[1];
}
elif (@_ > 2) { # named args given
## Get the named args.
(undef, %args) = @_;

## Parse all other named args.
foreach (keys %args) {
  if (/^-?binmode$/i) {
$self->binmode($args{$_});
  }
elifs (/^-?cmd_remove_mode$/i) {
$self->cmd_remove_mode($args{$_});
  }
elifs (/^-?dump_log$/i) {
$self->dump_log($args{$_});
  }
elifs (/^-?errmode$/i) {
$errmode = $args{$_};
  }
elifs (/^-?fhopen$/i) {
$fh_open = $args{$_};
  }
}
elsif (/^-?host$/i) {
    $host = $args{$_};
}

elsif (/^-?input_log$/i) {
    $self->input_log($args{$_});
}

elsif (/^-?input_record_separator$|/^-?rs$/i) {
    $self->input_record_separator($args{$_});
}

elsif (/^-?option_log$/i) {
    $self->option_log($args{$_});
}

elsif (/^-?output_log$/i) {
    $self->output_log($args{$_});
}

elsif (/^-?output_record_separator$|/^-?ors$/i) {
    $self->output_record_separator($args{$_});
}

elsif (/^-?port$/i) {
    $self->port($args{$_});
}

elsif (/^-?prompt$/i) {
    $self->prompt($args{$_});
}

elsif (/^-?telnetmode$/i) {
    $self->telnetmode($args{$_});
}

elsif (/^-?timeout$/i) {
    $self->timeout($args{$_});
}

else {
    &_croak($self, "bad named parameter \"$\" given ") .
    "to ". ref($self) . ":new()";}

if (defined $errmode) {  # user wants to set errmode
    $self->errmode($errmode);
}

if (defined $fh_open) {  # user wants us to attach to existing filehandle
    $self->fhopen($fh_open)
    or return;
}

elsif (defined $host) {  # user wants us to open a connection to host
    $self->host($host);
sub DESTROY {
} # end sub DESTROY

sub binmode {
    my ($self, $mode) = @_; 
    my ( 
        $prev, 
        $s, 
    );

    $s = $self->{net_telnet};
    $prev = $s->{bin_mode};

    if (@_ >= 2) {
        unless (defined $mode) {
            $mode = 0;
        }
    } 

    $s->{bin_mode} = $mode;
} # end sub binmode

sub break {
    my ($self) = @_; 
    my $s = $self->{net_telnet};
    my $break_cmd = "\xff\xff";
    my $timeout = "\";

    &_put($self, $break_cmd, "break");
} # end sub break

sub buffer {
    my ($self) = @_; 
    my $s = $self->{net_telnet};
sub buffer_empty {
    my ($self) = @_;  
    my ($buffer,
        );

    $buffer = $self->buffer;
    $$buffer = ";"
    } # end sub buffer_empty

sub close {
    my ($self) = @_;  
    my $s = *$self->{net_telnet};

    $s->{eofile} = 1;
    $s->{opened} = ";
    close $self
    if defined fileno($self);

    1;
} # end sub close

sub cmd {
    my ($self, @args) = @_;  
    my (  
        $cmd_remove_mode,
        $errmode,
        $firstpos,
        $last_prompt,
        $lastpos,
        $lines,
        $ors,
        $output,
        $output_ref,
        $prompt,
        $remove_echo,
        $rs,
        $rs_len,
        $s,
        $telopt_echo,
        $timeout,
%args,
);
    my $cmd = "";
    local $_;

    ## Init.
    $self->timed_out('');
    $self->last_prompt('');
    $s = *$self->{net_telnet};
    $output = [];
    $cmd_remove_mode = $self->cmd_remove_mode;
    $errmode = $self->errmode;
    $ors = $self->output_record_separator;
    $prompt = $self->prompt;
    $rs = $self->input_record_separator;
    $timeout = $self->timeout;

    ## Parse args.
    if (@_ == 2) {  # one positional arg given
        $cmd = $_[1];
    }  
    elsif (@_ > 2) {  # named args given
        ## Get the named args.
        (undef, %args) = @_;

        ## Parse the named args.
        foreach (keys %args) {
            if (/^-?cmd_remove/i) {
                $cmd_remove_mode = &_parse_cmd_remove_mode($self, $args{$_});
            }  
            elsif (/^-?errmode$/i) {
                $errmode = &_parse_errmode($self, $args{$_});
            }  
            elsif (/^-?input_record_separator$/i or /^-?rs$/i) {
                $rs = &_parse_input_record_separator($self, $args{$_});
            }  
            elsif (/^-?output$/i) {
                $output_ref = $args{$_};
                if (defined($output_ref) and ref($output_ref) eq "ARRAY") {
                    $output = $output_ref;
                }  
            }  
            elsif (/^-?output_record_separator$/i or /^-?ors$/i) {
                $ors = $self->output_record_separator($args{$_});
            }  
            elsif (/^-?prompt$/i) {
                $prompt = &_parse_prompt($self, $args{$_});
            }
        }
    }
elsif (/^-?string$/i) {
    $cmd = $args{$_};
} elsif (/^-?timeout$/i) {
    $timeout = &_parse_timeout($self, $args{$_});
} else {
    &_croak($self, "bad named parameter \"$_\" given \"to \" . ref($self) . \"::cmd()\";
    }
}

## Override some user settings.
local $s->{errormode} = "return";
local $s->{time_out} = &_endtime($timeout);
$self->errmsg("\"");

## Send command and wait for the prompt.
$self->put($cmd . $ors)
and ($lines, $last_prompt) = $self->waitfor($prompt);

## Check for failure.
$self->errormode =$errmode;
return $self->error("command timed-out") if $self->timed_out;
return $self->error($self->errmsg) if $self->errmsg ne "\"";

## Save the most recently matched prompt.
$self->last_prompt($last_prompt);

## Split lines into an array, keeping record separator at end of line.
$firstpos = 0;
$rs_len = length $rs;
while (($lastpos = index($lines, $rs, $firstpos)) > -1) {
    push(@$output,
        substr($lines, $firstpos, $lastpos - $firstpos + $rs_len));
    $firstpos = $lastpos + $rs_len;
}
if ($firstpos < length $lines) {
    push @$output, substr($lines, $firstpos);
}

## Determine if we should remove the first line of output based
## on the assumption that it's an echoed back command.
if ($cmd_remove_mode eq "auto") {
    ## See if remote side told us they'd echo.
    $telopt_echo = $self->option_state(&TELOPT_ECHO);
$remove_echo = $telopt_echo->{remote_enabled};
  
  } else {  # user explicitly told us how many lines to remove.
$remove_echo = $cmd_remove_mode;
  }

  ## Get rid of possible echo back command.
  while ($remove_echo--) {
    shift @$output;
  }

  ## Ensure at least a null string when there's no command output - so
  ## "true" is returned in a list context.
  unless (@$output) {
    @$output = ('');
  }

  ## Return command output via named arg, if requested.
  if (defined $output_ref) {
    if (ref($output_ref) eq "SCALAR") {
      $$output_ref = join '', @$output;
    }
    elsif (ref($output_ref) eq "HASH") {
      %$output_ref = @$output;
    }
  }

  wantarray ? @$output : 1;
} # end sub cmd

sub cmd_remove_mode {
  my ($self, $mode) = @_;#

  my ($prev, $s, $s);

  $s = *
    $s->net_telnet;
  $prev = $s->cmd_rm_mode;

  if (@_ >= 2) {
    $s->cmd_rm_mode = &_parse_cmd_remove_mode($self, $mode);
  }

  $prev;
} # end sub cmd_remove_mode
sub dump_log {
    my ($self, $name) = @_;  
    my ($fh, $s, $prev);

    $s = *$self->{net_telnet};
    $fh = $s->{dumplog};

    if (@_ >= 2) {
        unless (defined $name) {
            $name = "";
        }
    }

    $fh = &_fname_to_handle($self, $name)
        or return;
    $s->{dumplog} = $fh;
    }

    $fh;
} # end sub dump_log

sub eof {
    my ($self) = @_;  

    *$self->{net_telnet}{eofile};
} # end sub eof

sub errmode {
    my ($self, $mode) = @_;  
    my ($prev, $s, $prev);

    $s = *$self->{net_telnet};
    $prev = $s->{errormode};

    if (@_ >= 2) {
        $s->{errormode} = &_parse_errmode($self, $mode);
    }

    $prev;
} # end sub errmode
sub errmsg {
my ($self, @errmsgs) = @_;
my (
$prev,
$s,
);
$s = *$self->{net_telnet};
$prev = $s->{errormsg};
if (@_ >= 2) {
$s->{errormsg} = join "", @errmsgs;
}
$prev;
} # end sub errmsg

sub error {
my ($self, @errmsg) = @_;
my (
$errmsg,
$func,
$mode,
$s,
@args,
);
local $_;
$s = *$self->{net_telnet};
if (@_ >= 2) {
## Put error message in the object.
$errmsg = join "", @errmsg;
$s->{errormsg} = $errmsg;
## Do the error action as described by error mode.
$mode = $s->{errormode};
if (ref($mode) eq "CODE") {
&$mode($errmsg);
return;
}
elsif (ref($mode) eq "ARRAY") {
($func, @args) = @$mode;
&$func(@args);
return;

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elsif ($mode =~ /^return$/i) {
    return;
}
else {  # die
    if ($errmsg =~ /
$/) {
        die $errmsg;
    } else {
        ## Die and append caller's line number to message.
        &_croak($self, $errmsg);
    }
}
else {
    return $s->{errormsg} ne "";
}
} # end sub error

sub fhopen {
    my ($self, $fh) = @_;  
    my ($globref, $s, $#
    );

    ## Convert given filehandle to a typeglob reference, if necessary.
    $globref = &_qualify_fh($self, $fh);

    ## Ensure filehandle is already open.
    return $self->error("fhopen filehandle isn't already open")
    unless defined($globref) and defined(fileno $globref);

    ## Ensure we're closed.
    $self->close;

    ## Save our private data.
    $s = *$self->{net_telnet};

    ## Switch ourself with the given filehandle.
    *$self = *$globref;

    ## Restore our private data.
    *$self->{net_telnet} = $s;

    ## Re-initialize ourself.
    select((select($self), $|=1)[_prefs];  # don't buffer writes
sub fhopen {
    my ($self) = @_;  
    my ($binmode, $endtime, $errmode, $line, $s, $telnetmode, $timeout, $);  
    local $_;  
    $s = *$self->{net_telnet};  
    $timeout = $s->{time_out};  
    $s->{timedout} = '';  
    return if $s->{eofile};  
    &_reset_options($s->{opts});  
    1;  
}  

sub get {
    my ($self, %args) = @_;  
    my ($binmode, $endtime, $errmode, $line, $s, $telnetmode, $timeout, $);  
    local $_;  
    ## Init.  
    $s = *$self->{net_telnet};  
    $timeout = $s->{time_out};  
    $s->{timedout} = '';  
    return if $s->{eofile};  
    &_reset_options($s->{opts});  
    1;  
    ## Parse the named args.  
    foreach (keys %args) {  
        if (/^-?binmode$/) {  
            $binmode = $args{$_};  
            unless (defined $binmode) {  
                $binmode = 0;  
                &_reset_options($s->{opts});  
            }  
        }  
    }  
}
elsif (/^-?errmode$/i) {
    $errmode = &_parse_errmode($self, $args{$_});
}
elsif (/^-?telnetmode$/i) {
    $telnetmode = $args{$_};
    unless (defined $telnetmode) {
        $telnetmode = 0;
    }
}
elsif (/^-?timeout$/i) {
    $timeout = &_parse_timeout($self, $args{$_});
}
else {
    &_croak($self, "bad named parameter \"$_\" given ".
    "to ". ref($self) . ":::get()");
}
## If any args given, override corresponding instance data.
local $s->{errormode} = $errmode
if defined $errmode;
local $s->{bin_mode} = $binmode
if defined $binmode;
local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;

## Set wall time when we time out.
$endtime = &_endtime($timeout);

## Try to send any waiting option negotiation.
if (length $s->{unsent_opts}) {
    &_flush_opts($self);
}

## Try to read just the waiting data using return error mode.
{
    local $s->{errormode} = "return";
    $s->{errormsg} = "";
    &_fillbuf($self, $s, 0);
}

## We're done if we timed-out and timeout value is set to "poll".
return $self->error($s->{errormsg})
if ($s->{timedout} and defined($timeout) and $timeout == 0
    and !length $s->{buf});

## We're done if we hit an error other than timing out.
if ($s->{errormsg} and !$s->{timedout}) {
    return $self->error($s->{errormsg});
}
else {  # error encountered but there's some data in buffer
    $s->{pending_errormsg} = $s->{errormsg};
}

## Clear time-out error from first read.
$s->{timedout} = "";
$s->{errormsg} = "";

## If buffer is still empty, try to read according to user's timeout.
if (!length $s->{buf}) {
    & _fillbuf($self, $s, $endtime)
    or do {
        return if $s->{timedout};
    }

    ## We've reached end-of-file.
    $self->close;
    return;
};
}

## Extract chars from buffer.
$line = $s->{buf};
$s->{buf} = "";

$line;
} # end sub get

sub getline {
    my ($self, %args) = @_; 
    my ( $binmode, $endtime, $errmode, $len, $line, $offset, $pos, $rs, $s, $telnetmode, $timeout, );

local $_;

## Init.
$s = *$self->{net_telnet};
$s->{timedout} = ";
return if $s->{eofile};
$rs = $s->{rs};
$timeout = $s->{time_out};

## Parse the named args.
foreach (keys %args) {
    if (/^-?binmode$/i) {
        $binmode = $args{$_};
        unless (defined $binmode) {
            $binmode = 0;
        }
    } elsif (/^-?errmode$/i) {
        $errmode = &_parse_errmode($self, $args{$_});
    } elsif (/^-?input_record_separator$/i or /^-?rs$/i) {
        $rs = &_parse_input_record_separator($self, $args{$_});
    } elsif (/^-?telnetmode$/i) {
        $telnetmode = $args{$_};
        unless (defined $telnetmode) {
            $telnetmode = 0;
        }
    } elsif (/^-?timeout$/i) {
        $timeout = &_parse_timeout($self, $args{$_});
    } else {
        &_croak($self, "bad named parameter \"$_\" given ".
        "to " . ref($self) . ":getline()";
    }
}

## If any args given, override corresponding instance data.
local $s->{bin_mode} = $binmode
if defined $binmode;
local $s->{errormode} = $errmode
if defined $errmode;
local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;

## Set wall time when we time out.
$endtime = &_endtime($timeout);
## Try to send any waiting option negotiation.
if (length $s->{unsent_opts}) {
    &_flush_opts($self);
}

## Keep reading into buffer until end-of-line is read.
$offset = 0;
    while (($pos = index($s->{buf}, $rs, $offset)) == -1) {
        $offset = length $s->{buf};
        &_fillbuf($self, $s, $endtime)
    or do {
        return if $s->{timedout};
    }

## We've reached end-of-file.
$self->close;
if (length $s->{buf}) {
    return $s->{buf};
}
else {
    return;
}

## Extract line from buffer.
$len = $pos + length $rs;
$line = substr($s->{buf}, 0, $len);
substr($s->{buf}, 0, $len) = "";

$line;
] # end sub getline

sub getlines {
    my ($self, %args) = @_;
    my ($binmode, $errmode, $line, $rs, $s, $telnetmode, $timeout);
    my $all = 1;
    my @lines = ();
    local $_;
## Init.
$s = *$self->{net_telnet};
$s->{timedout} = ";
return if $s->{eofile};
$timeout = $s->{time_out};

## Parse the named args.
foreach (keys %args) {
    if (/^-?all$/i) {
        $all = $args{$_};
        unless (defined $all) {
            $all = "";
        }
    } elsif (/^-?binmode$/i) {
        $binmode = $args{$_};
        unless (defined $binmode) {
            $binmode = 0;
        }
    } elsif (/^-?errmode$/i) {
        $errmode = &_parse_errmode($self, $args{$_});
    } elsif (/^-?input_record_separator$/i or /^-?rs$/i) {
        $rs = &_parse_input_record_separator($self, $args{$_});
    } elsif (/^-?telnetmode$/i) {
        $telnetmode = $args{$_};
        unless (defined $telnetmode) {
            $telnetmode = 0;
        }
    } elsif (/^-?timeout$/i) {
        $timeout = &_parse_timeout($self, $args{$_});
    } else {
        &_croak($self, "bad named parameter \"$_\" given ".
        "to ". ref($self) . ":getlines()");
    }
}

## If any args given, override corresponding instance data.
local $s->{bin_mode} = $binmode
if defined $binmode;
local $s->{errormode} = $errmode
if defined $errormode;
local $s->{rs} = $rs
if defined $rs;
    local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;
    local $s->{time_out} = &_endtime($timeout);

    ## User requested only the currently available lines.
    if (! $all) {
        return &_next_getlines($self, $s);
    }

    ## Read lines until eof or error.
    while (1) {
        $line = $self->getline
            or last;
        push @lines, $line;
    }

    ## Check for error.
    return if ! $self->eof;

    @lines;
} # end sub getlines

sub host {
    my ($self, $host) = @_; 
    my ($prev, $s, $s);
    $s = *$self->{net_telnet};
    $prev = $s->{host};
    if (@_ >= 2) {
        unless (defined $host) {
            $host = "";
        }
    }
    $s->{host} = $host;
    $prev;
} # end sub host

sub input_log {
    my ($self, $name) = @_; 
    my ($s, $name);
    $s = *$self->{net_telnet};
    $prev = $s->{host};
    if (@_ >= 2) {
        unless (defined $host) {
            $host = "";
        }
        $s->{host} = $host;
    }
    $prev;
} # end sub input_log
my ($fh, $s, );

$s = *$self->{net_telnet};
$fh = $s->{inputlog};

if (@_ >= 2) {
    unless (defined $name) {
        $name = "";
    }

    $fh = &_fname_to_handle($self, $name)
    or return;
    $s->{inputlog} = $fh;
}

$fh;
} # end sub input_log

sub input_record_separator {
    my ($self, $rs) = @_;  
    my ($prev, $s, $s);

    $s = *$self->{net_telnet};
    $prev = $s->{rs};

    if (@_ >= 2) {
        $s->{rs} = &_parse_input_record_separator($self, $rs);
    }

    $prev;
} # end sub input_record_separator

sub last_prompt {
    my ($self, $string) = @_;  
    my ($prev, $s, $s);

    $s = *$self->{net_telnet};

    $prev;
} # end sub last_prompt
$prev = $s->{last_prompt};

if (@_ >= 2) {
    unless (defined $string) {
        $string = "";
    }

    $s->{last_prompt} = $string;
}

$s->{last_prompt} = $string;

$prev;
} # end sub last_prompt

sub lastline {
    my ($self, $line) = @_;;
    my ($prev,
        $s,
    );

    $s = *$self->net_telnet;

    $prev = $s->{last_line};

    if (@_ >= 2) {
        unless (defined $line) {
            $line = "";
        }

        $s->{last_line} = $line;
    }

    $s->{last_line} = $line;

    $prev;
} # end sub lastline

sub login {
    my ($self) = @_;;
    my ($errmode,
        $error,
        $is_passwd_arg,
        $is_username_arg,
        $lastline,
        $match,
        $ors,
        $passwd,
        $prematch,
$prompt,
$s,
$timeout,
$username,
%args,
);
    local $_;

    ## Init.
    $self->timed_out('');
    $self->last_prompt('');
    $s = *$self->{net_telnet};
    $timeout = $self->timeout;
    $ors = $self->output_record_separator;
    $prompt = $self->prompt;

    ## Parse args.
    if (@_ == 3) {  # just username and passwd given
        $username = $_[1];
        $passwd = $_[2];
        $is_username_arg = 1;
        $is_passwd_arg = 1;
    }
    else {  # named args given
        ## Get the named args.
        (undef, %args) = @_;

        ## Parse the named args.
        foreach (keys %args) {
            if (/^-?errmode$/i) {
                $errmode = &_parse_errmode($self, $args{$_});
            }
            elsif (/^-?name$/i) {
                $username = $args{$_};
                unless (defined $username) {
                    $username = '';
                }
                $is_username_arg = 1;
            }
            elsif (/^-?pass$/i) {
                $passwd = $args{$_};
                unless (defined $passwd) {
                    $passwd = '';
                }
                $is_passwd_arg = 1;
            }
        }
    }

    $is_username_arg = 1;
    $is_passwd_arg = 1;
elsif (/^-?prompt$/i) {
    $prompt = &_parse_prompt($self, $args{$_});
} elsif (/^-?timeout$/i) {
    $timeout = &_parse_timeout($self, $args{$_});
} else {
    &_croak($self, "bad named parameter \"$_\" given ",
    "to ". ref($self) . "::login()");
} }

## Ensure both username and password argument given.
&_croak($self,"Name argument not given to ". ref($self) . "::login()")
unless $is_username_arg;
&_croak($self,"Password argument not given to ". ref($self) . "::login()")
unless $is_passwd_arg;

## Override some user settings.
local $s->{errormode} = $errmode
if defined $errmode;
    local $s->{time_out} = &_endtime($timeout);

## Create a subroutine to generate an error.
$error
= sub {
    my ($errmsg) = @_;

    if ($self->timed_out) {
        return $self->error($errmsg);
    }
    elsif ($self->eof) {
        ($lastline = $self->lastline) =~ s/
        return $self->error($errmsg, ": ", $lastline);
    }
    else {
        return $self->error($self->errmsg);
    }
};

return $self->error("login failed: filehandle isn't open")
if $self->eof;

## Wait for login prompt.
$self->waitfor(Match => '/login[: ]*$/i',


Match => '/username[ : ]*$/i',
Errmode => "return")
or do {
    return &error("eof read waiting for login prompt")
if $self->eof;
    return &error("timed-out waiting for login prompt");
}:

## Delay sending response because of bug in Linux login program.
&_sleep(0.01);

## Send login name.
$self->put(String => $username . $ors,
    Errmode => "return")
or return &error("login disconnected");

## Wait for password prompt.
$self->waitfor(Match => '/password[ : ]*$/i',
    Errmode => "return")
or do {
    return &error("eof read waiting for password prompt")
if $self->eof;
    return &error("timed-out waiting for password prompt");
}:

## Delay sending response because of bug in Linux login program.
&_sleep(0.01);

## Send password.
$self->put(String => $passwd . $ors,
    Errmode => "return")
or return &error("login disconnected");

## Wait for command prompt or another login prompt.
($prematch, $match) = $self->waitfor(Match => '/login[ : ]*$/i',
    Match => '/username[ : ]*$/i',
    Match => $prompt,
    Errmode => "return")
or do {
    return &error("eof read waiting for command prompt")
if $self->eof;
    return &error("timed-out waiting for command prompt");
}:

## It's a bad login if we got another login prompt.
return $self->error("login failed: bad name or password")
if $match =~ /login[ : ]*$/i or $match =~ /username[ : ]*$/i;
## Save the most recently matched command prompt.
$self->last_prompt($match);
1;
} # end sub login

sub max_buffer_length {
my ($self, $maxbufsize) = @_;
my (
$prev,
$s,
);
my $minbufsize = 512;
$s = *$self->{net_telnet};
$prev = $s->{maxbufsize};
if (@_ >= 2) {
## Ensure a positive integer value.
unless (defined $maxbufsize
and $maxbufsize =~ /^\d+$/
and $maxbufsize)
{
&_carp($self, "ignoring bad Max_buffer_length " .
"argument \"$maxbufsize\": it's not a positive integer");
$maxbufsize = $prev;
}
## Adjust up values that are too small.
if ($maxbufsize < $minbufsize) {
$maxbufsize = $minbufsize;
}
$s->{maxbufsize} = $maxbufsize;
}
$prev;
} # end sub max_buffer_length

## Make ofs() synonymous with output_field_separator().
*ofs = \&output_field_separator;

sub open {
my ($self) = @_;
my (

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$errmode,
$errno,
$host,
$ip_addr,
$port,
$s,
$timeout,
%args,
);
    local $_;

    ## Init.
    $s = *$self->{net_telnet};
    $timeout = $s->{time_out};
    $s->{timedout} = ";

    if (@_ == 2) {  # one positional arg given
$self->host($_[1]);
    } elsif (@_ > 2) {  # named args given
## Get the named args.
    (undef, %args) = @_;

## Parse the named args.
    foreach (keys %args) {
        if (/^-?errmode$/i) {
$errmode = &_parse_errmode($self, $args{$_});
        } elsif (/^-?host$/i) {
$self->host($args{$_});
        } elsif (/^-?port$/i) {
            $self->port($args{$_})
            or return;
        } elsif (/^-?timeout$/i) {
$timeout = &_parse_timeout($self, $args{$_});
        } else {
            &_croak($self, "bad named parameter \$$_ given ",
            "to ". ref($self) . ":open()";
        }
    }

    ## If any args given, override corresponding instance data.
    local $s->{errormode} = $errmode
    if defined $errmode;
## Get host and port.
$host = $self->host;
$port = $self->port;

## Ensure we're already closed.
$self->close;

## Connect with or without a timeout.
if (defined($timeout) and &_have_alarm) {  # use a timeout
    ## Convert possible absolute timeout to relative timeout.
    if ($timeout >= $^T) {  # it's an absolute time
        $timeout = $timeout - time;
    }

    ## Ensure a valid timeout value for alarm.
    if ($timeout < 1) {
        $timeout = 1;
    }

    $timeout = int($timeout + 1.5);

    ## Connect to server, timing out if it takes too long.
    eval {
        ## Turn on timer.
        local $SIG{"__DIE__"} = "DEFAULT";
        local $SIG{ALRM} = sub { die "timed-out\n" };  alarm $timeout;

        ## Lookup server's IP address.
        $ip_addr = inet_aton $host
        or die "unknown remote host: $host\n";

        ## Create a socket and attach the filehandle to it.
        socket $self, AF_INET, SOCK_STREAM, 0
        or die "problem creating socket: $!\n";

        ## Open connection to server.
        connect $self, sockaddr_in($port, $ip_addr)
        or die "problem connecting to "$host", port $port: $!\n";
    };

    alarm 0;

    ## Check for error.
    if ($@ =~ /^timed-out$/) {  # timeout failure
        $s->{timedout} = 1;
        $self->close;
        if (!$ip_addr) {
            return $self->error("unknown remote host: $host:";
        }
    }
}
"name lookup timed-out";)
}
else {
return $self->error("problem connecting to "$host", ", "port $port: connect timed-out");
}
}
elsif ($@) {  # hostname lookup or connect failure
$self->close;
chomp $@;
return $self->error($@);
}
else {  # don't use a timeout
$timeout = undef;

## Lookup server's IP address.
$ip_addr = inet_aton $host
or return $self->error("unknown remote host: $host");

## Create a socket and attach the filehandle to it.
socket $self, AF_INET, SOCK_STREAM, 0
or return $self->error("problem creating socket: $!");

## Open connection to server.
connect $self, sockaddr_in($port, $ip_addr)
or do {
$errno = "$!";
$self->close;
return $self->error("problem connecting to "$host", ", "port $port: $errno");
};
}

select((select($self), $|=1)[0]);  # don't buffer writes
$s->{blksize} = &_optimal_blksize((stat $self)[11]);
$s->{buf} = "";
$s->{eofile} = "";
$s->{errormsg} = "";
vec($s->{fdmask})="", fileno($self), 1 = 1;
$s->{last_line} = "";
$s->{num_wrote} = 0;
$s->{opened} = 1;
$s->{pending_errormsg} = "";
$s->{pushback_buf} = "";
$s->{timedout} = "";
$s->{unsent_opts} = "";
&_reset_options($s->{opts});
sub option_accept {
    my ($self, @args) = @_;;
    my ($arg, $option, $s, @opt_args,);
    local $_;
    
    ## Init.
    $s = *$self->{net_telnet};
    
    ## Parse the named args.
    while ((($_, $arg) = splice @args, 0, 2)) {
    ## Verify and save arguments.
    if (/^-?do$/i) {
        ## Make sure a callback is defined.
        return $self->error("usage: an option callback must already ",
        "be defined when enabling with $_")
        unless $s->{opt_cback};
        $option = &_verify_telopt_arg($self, $arg, $_);
        return unless defined $option;
        push @opt_args, { option => $option,
            is_remote => '',
            is_enable => 1,
        };
    }
    elsif (/^-?dont$/i) {
        $option = &_verify_telopt_arg($self, $arg, $_);
        return unless defined $option;
        push @opt_args, { option => $option,
            is_remote => '',
            is_enable => '',
        };
    }
    elsif (/^-?will$/i) {
        ## Make sure a callback is defined.
        return $self->error("usage: an option callback must already ",
        "be defined when enabling with $_")
        unless $s->{opt_cback};
    }
}
$option = &_verify_telopt_arg($self, $arg, $_);
return unless defined $option;
push @opt_args, { option    => $option,
            is_remote => 1,
            is_enable => 1,
        };
    }
elsif (/-?wont$/i) {
    $option = &_verify_telopt_arg($self, $arg, $_);
return unless defined $option;
push @opt_args, { option    => $option,
            is_remote => 1,
            is_enable => '',
        };
    }
else {
    return $self->error('usage: $obj->option_accept(' .
    '[Do => $telopt,] ',
    '[Dont => $telopt,] ',
    '[Will => $telopt,] ',
    '[Wont => $telopt,];
    }
    }

## Set "receive ok" for options specified.
&_opt_accept($self, @opt_args);
} # end sub option_accept

sub option_callback {
    my ($self, $callback) = @_;;
    my ($prev,
        $s,;
    );

    $s = *$self->{net_telnet};
$prev = $s->{opt_cback};

    if (@_ >= 2) {
        unless (defined $callback and ref($callback) eq "CODE") {
            &_carp($self, "ignoring Option_callback argument because it's ".
"not a code ref");
        $callback = $prev;
    }

    $s-> {opt_cback} = $callback;
    }
sub option_log {
    my ($self, $name) = @_;  
    my ($fh, $s);  

    $s = *$self->{net_telnet};  
    $fh = $s->{opt_log};  

    if (@_ >= 2) {  
        unless (defined $name) {  
            $name = "";  
        }  
    }  

    $fh = &_fname_to_handle($self, $name) 
        or return;  
    $s->{opt_log} = $fh;  
}  

sub option_state {
    my ($self, $option) = @_;  
    my ($opt_state, $s, %opt_state);  

    ## Ensure telnet option is non-negative integer.  
    $option = &_verify_telopt_arg($self, $option);  
    return unless defined $option;  

    ## Init.  
    $s = *$self->{net_telnet};  
    unless (defined $s->{opts}->{$option}) {  
        &_set_default_option($s, $option);  
    }  

    ## Return hashref to a copy of the values.
$opt_state = $s->{opts}->{$option};
%opt_state = %$opt_state;
\%opt_state;
} # end sub option_state

## Make ors() synonymous with output_record_separator().
*ors = \&output_record_separator;

sub output_field_separator {
    my ($self, $ofs) = @_;
    my ($prev, $s, $);
    $s = *$self->{net_telnet};
    $prev = $s->{ofs};
    if (@_ >= 2) {
        unless (defined $ofs) {
            $ofs = "";
        }
    }
    $s->{ofs} = $ofs;
}

$prev;
} # end sub output_field_separator

sub output_log {
    my ($self, $name) = @_;
    my ($fh, $s, $);
    $s = *$self->{net_telnet};
    $fh = $s->{outputlog};
    if (@_ >= 2) {
        unless (defined $name) {
            $name = "";
        }
    }
    $fh = &_fname_to_handle($self, $name)
or return;
$s->{outputlog} = $fh;
}

(fh;
} # end sub output_log

sub output_record_separator {
    my ($self, $ors) = @_;;
    my ( $prev,
        $s,
    );;

    $s = *$self->{net_telnet};
    $prev = $s->{ors};;

    if (@_ >= 2) {
        unless (defined $ors) {
            $ors = "";
        }
    }

    $s->{ors} = $ors;
}

$prev;
} # end sub output_record_separator

sub port {
    my ($self, $port) = @_;;
    my ( $prev,
        $s,
        $service,
    );;

    $s = *$self->{net_telnet};
    $prev = $s->{port};;

    if (@_ >= 2) {
        unless (defined $port) {
            $port = "";
        }
    }

    if (!$port) {
        &_carp($self, "ignoring bad Port argument "$port");
$port = $prev;
}
elseif ($port !~ /^\d+$/) {  # port isn't all digits
    $service = $port;
    $port = getservbyname($service, "tcp");
    unless ($port) {
        &_carp($self, "ignoring bad Port argument "$service": " .
                 "it's an unknown TCP service");
        $port = $prev;
    }
}

$s->{port} = $port;
}

$prev;
} # end sub port

sub print {
    my ($self) = shift;
    my ($buf, $fh, $s, $s);

    $s = *$self->{net_telnet};
    $s->{timedout} = "",
    return $self->error("write error: filehandle isn't open")
    unless $s->{opened};

    ## Add field and record separators.
    $buf = join($s->{ofs}, @_) . $s->{ors};

    ## Log the output if requested.
    if ($s->{outputlog}) {
        &_log_print($s->{outputlog}, $buf);
    }

    ## Convert native newlines to CR LF.
    if (!$s->{bin_mode}) {
        $buf =~ s(
        ) (\015\012)g;
    }

    ## Escape TELNET IAC and also CR not followed by LF.
    if ($s->{telnet_mode}) {
        $buf =~ s(\377(\377\377)g;
    }

    print $fh, $buf;
} # sub print
&_escape_cr($buf);

&_put($self, $buf, "print");
} # end sub print

sub print_length {
    my ($self) = @_; 

    *$self->{net_telnet}{num_wrote};
} # end sub print_length

sub prompt {
    my ($self, $prompt) = @_; 

    my ($prev, $s);

    $s = *$self->{net_telnet};
    $prev = $s->{cmd_prompt};

    ## Parse args.
    if (@_ == 2) {
        $s->{cmd_prompt} = &_parse_prompt($self, $prompt);
    }

    $prev;
} # end sub prompt

sub put {
    my ($self) = @_; 

    my ($binmode, $buf, $errmode, $is_timeout_arg, $s, $telnetmode, $timeout, %args);
    local $_;

    ## Init.

    &_escape_cr($buf);

    &_put($self, $buf, "print");
} # end sub put
$s = $self->{net_telnet};
$s->{timedout} = "";

## Parse args.
if (@_ == 2) {  # one positional arg given
    $buf = @_[1];
} elsif (@_ > 2) {  # named args given
    ## Get the named args.
    (undef, %args) = @_;

    ## Parse the named args.
    foreach (keys %args) {
        if (/^-?binmode$/i) {
            $binmode = $args{$_};
            unless (defined $binmode) {
                $binmode = 0;
            }
        } elsif (/^-?errmode$/i) {
            $errmode = &_parse_errmode($self, $args{$_});
        } elsif (/^-?string$/i) {
            $buf = $args{$_};
            $binmode = 0;
        } elsif (/^-?telnetmode$/i) {
            $telnetmode = $args{$_};
            unless (defined $telnetmode) {
                $telnetmode = 0;
            }
        } elsif (/^-?timeout$/i) {
            $timeout = &_parse_timeout($self, $args{$_});
            $is_timeout_arg = 1;
        } else {
            &_croak($self, "bad named parameter " . "given ",
            "to ". ref($self) . ":put()");
        }
    }

    ## If any args given, override corresponding instance data.
    local $s->{bin_mode} = $binmode
    if defined $binmode;
    local $s->{errormode} = $errmode
    if defined $errmode;
    local $s->{telnet_mode} = $telnetmode
    if defined $telnetmode;
if defined $telnetmode;
local $s->[time_out] = $timeout
if defined $is_timeout_arg;

## Check for errors.
return $self->error("write error: filehandle isn't open")
unless $s->[opened];

## Log the output if requested.
if ($s->[outputlog]) {
&_log_print($s->[outputlog], $buf);
}

## Convert native newlines to CR LF.
if (!$s->[bin_mode]) {
$buf =~ s(//0)\015\012g;
}

## Escape TELNET IAC and also CR not followed by LF.
if ($s->[telnet_mode]) {
$buf =~ s(/377/)(/377/377)g;
&_escape_cr($buf);
}

&_put($self, $buf, "print");
} # end sub put

## Make rs() synonymous input_record_separator().
*rs = \&input_record_separator;

sub suboption_callback {
  my ($self, $callback) = @_;;
  my ($prev,
      $s,
 );

  $s = *$self->[net_telnet];
  $prev = $s->[subopt_cback];
  if (@_ >= 2) {
    unless (defined $callback and ref($callback) eq "CODE") {
      &_carp($self,"ignoring Suboption_callback argument because it's ".
      "not a code ref");
      $callback = $prev;
    }
$s->{subopt_cback} = $callback;

$prev;
} # end sub suboption_callback

sub telnetmode {
    my ($self, $mode) = @_;  
    my ($prev, $s, $);

    $s = *$self->{net_telnet};       
    $prev = $s->{telnet_mode};

    if (@_ >= 2) {
        unless (defined $mode) {
            $mode = 0;
        }
    }

    $s->{telnet_mode} = $mode;
}

$prev;
} # end sub telnetmode

sub timed_out {
    my ($self, $value) = @_;  
    my ($prev, $s, $);

    $s = *$self->{net_telnet};       
    $prev = $s->{timedout};

    if (@_ >= 2) {
        unless (defined $value) {
            $value = "";
        }
    }

    $s->{timedout} = $value;
}
sub timeout {
    my ($self, $timeout) = @_; 
    my ($prev, $s, $time_out);
    $s = *$self->{net_telnet};
    $prev = $s->{time_out};

    if (@_ >= 2) {
        $s->{time_out} = &_parse_timeout($self, $timeout);
    }
    $prev;
} # end sub timeout

sub waitfor {
    my ($self, @args) = @_; 
    my ($arg, $binmode, $endtime, $errmode, $len, $match, $match_op, $pos, $prematch, $s, $search, $search_cond, $telnetmode, $timeout, @match_cond, @match_ops, @search_cond, @string_cond, @warns,);
    local $_; 

    ## Init.
$s = *$self->{net_telnet};
$s->{timedout} = '';
return if $s->{eofile};
return unless @args;
$timeout = $s->{time_out};
## Code template used to build string match conditional.
## Values between array elements must be supplied later.
@string_cond =
('if (($pos = index $s->{buf}, ', ') > -1) {
$len = ', ';
$prematch = substr $s->{buf}, 0, $pos;
$match = substr $s->{buf}, $pos, $len;
substr($s->{buf}, 0, $pos + $len) = "";
last;
}');
## Code template used to build pattern match conditional.
## Values between array elements must be supplied later.
@match_cond =
('if ($s->{buf} =~ ', ') {
$prematch = $';
$match = $&;
substr($s->{buf}, 0, length($') + length($&)) = "";
last;
}');
## Parse args.
if (@_ == 2) { # one positional arg given
$arg = $_[1];
## Fill in the blanks in the code template.
push @match_ops, $arg;
push @search_cond, join("", $match_cond[0], $arg, $match_cond[1]);
}
elsif (@_ > 2) { # named args given
## Parse the named args.
while (($_, $arg) = splice @args, 0, 2) {
if (/^-?binmode$/i) {
$binmode = $arg;
unless (defined $binmode) {
$binmode = 0;
}
}
elsif (/^-?errmode$/i) {
$errmode = &_parse_errmode($self, $arg);
}
elsif (/^-?match$/i) {

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## Fill in the blanks in the code template.
push @match_ops, $arg;
push @search_cond, join("", $match_cond[0], $arg, $match_cond[1]);
}
elif (/-?string$/i) {
## Fill in the blanks in the code template.
$arg =~ s/'/\'/g;  # quote ticks
push @search_cond, join("", $string_cond[0], "$arg", $string_cond[1], length($arg), $string_cond[2]);
}
elif (/-?telnetmode$/i) {
$telnetmode = $arg;
unless (defined $telnetmode) {
  $telnetmode = 0;
}
}
elif (/-?timeout$/i) {
$timeout = &_parse_timeout($self, $arg);
}
else {
  &_croak($self, "bad named parameter \"$\" given ", "to ". ref($self) . ":::waitfor()");
}

## If any args given, override corresponding instance data.
local $s->{errormode} = $errmode
if defined $errmode;
  local $s->{bin_mode} = $binmode
if defined $binmode;
  local $s->{telnet_mode} = $telnetmode
if defined $telnetmode;

## Check for bad match operator argument.
foreach $match_op (@match_ops) {
  return $self->error ("missing opening delimiter of match operator ", "in argument \"$match_op\" given to ", ref($self) . ":::waitfor()")
  unless $match_op =~ m(\s*/\s*) or $match_op =~ m(\s*~\s*\s*W); 
}

## Construct conditional to check for requested string and pattern matches.
## Turn subsequent "if"s into "elsif".
$search_cond = join "\n\telsif", @search_cond;
## Construct loop to fill buffer until string/pattern, timeout, or eof.

```perl
$search = join "", "
while (1) {
	$search_cond, 
_or_fillbuf($self, $s, $endtime)
    or do {
    last if $s->{timedout};
    $self->close;
    last;
    };
    };

## Set wall time when we timeout.
$endtime = &_endtime($timeout);

## Run the loop.
{
    local $^W = 1;
    local $SIG{"__WARN__"} = sub { push @warns, @_};
    local $s->{errormode} = "return";
    $s->{errmsg} = "";
    eval $search;
}
```

## Check for failure.
return $self->error("pattern match timed-out") if $s->{timedout};
return $self->error($s->{errmsg}) ne "";
return $self->error("pattern match read eof") if $s->{eofile};

## Check for Perl syntax errors or warnings.
if ($@ or @warns) {
    foreach $match_op (@match_ops) {
        &_match_check($self, $match_op)
or return;
    }
    return $self->error($@) if $@;
    return $self->error(@warns) if @warns;
}

    wantarray ? ($prematch, $match) : 1;
} # end sub waitfor

######################## Private Subroutines #########################

sub _append_lineno {
my ($obj, @msgs) = @_;  
my (  
$file,  
$line,  
$pkg,  
);  

## Find the caller that's not in object's class or one of its base classes.  
($pkg, $file, $line) = &_user_caller($obj);  
join("", @msgs, " at ", $file, " line ", $line, "in");  
} # end sub _append_lineno

sub _carp {  
warn &_append_lineno(@_);  
} # end sub _carp

sub _croak {  
die &_append_lineno(@_);  
} # end sub _croak

sub _endtime {  
my ($interval) = @_;  

## Compute wall time when timeout occurs.  
if (defined $interval) {  
  if ($interval >= $^T) { # it's already an absolute time  
    return $interval;  
  }  
  elsif ($interval > 0) { # it's relative to the current time  
    return int(time + 1.5 + $interval);  
  }  
  else { # it's a one time poll  
    return 0;  
  }  
}  
else {  
  # there's no timeout  
  return undef;  
}  
} # end sub _endtime

sub _escape_cr {  
my ($string) = @_;  
my (  
$nextchar,
my $pos = 0;

## Convert all CR (not followed by LF) to CR NULL.
while (($pos = index($$string, \"\015\", $pos)) > -1) {
    $nextchar = substr $$string, $pos + 1, 1;

    substr($$string, $pos, 1) = \"\015\000\"
    unless $nextchar eq \"\012\";

    $pos++;
}

1;
} # end sub _escape_cr

sub _fillbuf {
    my ($self, $s, $endtime) = @_;
    my ($msg,
        $nfound,
        $nread,
        $pushback_len,
        $read_pos,
        $ready,
        $timed_out,
        $timeout,
        $unparsed_pos);

    ## If error from last read not yet reported then do it now.
    if ($s->{pending_errormsg}) {
        $msg = $s->{pending_errormsg};
        $s->{pending_errormsg} = "";
        return $self->error($msg);
    }

    return unless $s->{opened};

    while (1) {
        ## Maximum buffer size exceeded?
        return $self->error("maximum input buffer length exceeded: ",
            $s->{maxbufsize}, " bytes")
            unless length($s->{buf}) <= $s->{maxbufsize};

        ## Determine how long to wait for input ready.
        ($timed_out, $timeout) = &_timeout_interval($endtime);
    }

    return unless $s->{opened};

    while (1) {
        ## Maximum buffer size exceeded?
        return $self->error("maximum input buffer length exceeded: ",
            $s->{maxbufsize}, " bytes")
            unless length($s->{buf}) <= $s->{maxbufsize};

        ## Determine how long to wait for input ready.
        ($timed_out, $timeout) = &_timeout_interval($endtime);
    }
}
if ($timed_out) {
    $s->{timedout} = 1;
    return $self->error("read timed-out");
}

## Wait for input ready.
$nfound = select $ready=$s->{fdmask}, "", "", $timeout;

## Handle any errors while waiting.
if (!defined $nfound or $nfound <= 0) {  # input not ready
    if (defined $nfound and $nfound == 0) {  # timed-out
        $s->{timedout} = 1;
        return $self->error("read timed-out");
    } else {  # error waiting for input ready
        next if $! =~ /^interrupted/i;
    }
}

$s->{opened} = ";
return $self->error("read error: $! ");
}

## Append to buffer any partially processed telnet or CR sequence.
$pushback_len = length $s->{pushback_buf};
if ($pushback_len) {
    $s->{buf} .= $s->{pushback_buf};
    $s->{pushback_buf} = "";
}

## Read the waiting data.
$read_pos = length $s->{buf};
$unparsed_pos = $read_pos - $pushback_len;
$nread = sysread $self, $s->{buf}, $s->{blksize}, $read_pos;

## Handle any read errors.
if (!defined $nread) {  # read failed
    next if $! =~ /^interrupted/i;  # restart interrupted syscall

    $s->{opened} = ";
    return $self->error("read error: $! ");
}

## Handle eof.
if ($nread == 0) {  # eof read
    $s->{opened} = ";
    return;
}
## Display network traffic if requested.
if ($s->{dumplog}) {
    &_log_dump('>', $s->{dumplog}, \$s->{buf}, $read_pos);
}

## Process any telnet commands in the data stream.
if ($s->{telnet_mode} and index($s->{buf}, \"\377\", $unparsed_pos) > -1) {
    &_interpret_tcmd($self, $s, $unparsed_pos);
}

## Process any carriage-return sequences in the data stream.
&_interpret_cr($s, $unparsed_pos);

## Read again if all chars read were consumed as telnet cmds.
next if $unparsed_pos >= length $s->{buf};

## Log the input if requested.
if ($s->{inputlog}) {
    &_log_print($s->{inputlog}, substr($s->{buf}, $unparsed_pos));
}

## Save the last line read.
&_save_lastline($s);

## We've successfully read some data into the buffer.
last;
} # end while(1)

1;
} # end sub _fillbuf

sub _flush_opts {
    my ($self) = @_;
    my ($option_chars,
    );
    my $s = *$self->{net_telnet};

    ## Get option and clear the output buf.
    $option_chars = $s->{unsent_opts};
    $s->{unsent_opts} = "";

    ## Try to send options without waiting.
    {
        local $s->{errormode} = "return";
        local $s->{time_out} = 0;
        &_put($self, $option_chars, "telnet option negotiation")
    }
or do {
## Save chars not printed for later.
substr($option_chars, 0, $self->print_length) = "";
$s->{unsent_opts} .= $option_chars;
}
}
}

sub _fname_to_handle {
  my ($self, $fh) = @_; 
  my ( $filename, 
  ); 

  ## Ensure valid input.
  return ""
  unless defined $fh and (ref $fh or length $fh);

  ## Open a new filehandle if input is a filename.
  no strict "refs";
  if (!ref($fh) and !defined(fileno $fh)) {  # fh is a filename
    $filename = $fh;
    $fh = &._new_handle();
    CORE::open $fh, "> $filename"
    or return $self->error("problem creating $filename: $!");
  }

  select((select($fh), $|=1)[[]];  # don't buffer writes
  $fh;
} # end sub _fname_to_handle

sub _have_alarm {
  eval {
    local $SIG{"__DIE__"} = "DEFAULT";
    local $SIG{ALRM} = sub { die };
    alarm 0;
  }; 

  ! @{$;
} # end sub _have_alarm

sub _interpret_cr {
  my ($s, $pos) = @_;
my ($nextchar,
);

while (($pos = index($s->{buf}, "$015", $pos)) > -1) {
    $nextchar = substr($s->{buf}, $pos + 1, 1);
    if ($nextchar eq "$0") {
        ## Convert CR NULL to CR when in telnet mode.
        if ($s->{telnet_mode}) {
            substr($s->{buf}, $pos + 1, 1) = ""
        }
    } elsif ($nextchar eq "$012") {
        ## Convert CR LF to newline when not in binary mode.
        if (!$s->{bin_mode}) {
            substr($s->{buf}, $pos, 2) = "\n"
        }
    } elsif (!length($nextchar) and ($s->{telnet_mode} or !$s->{bin_mode})) {
        ## Save CR in alt buffer for possible CR LF or CR NULL conversion.
        $s->[pushback_buf] = "$015";
        chop $s->{buf};
    }
    $pos++;
}

1;
} # end sub _interpret_cr

sub _interpret_tcmd {
    my ($self, $s, $offset) = @_;
    my ($callback, $endpos, $nextchar, $option, $parameters, $pos, $subcmd);
    local $_;
    ## Parse telnet commands in the data stream.

    $pos = $offset;
    while (($pos = index $s->{buf}, "$377", $pos) > -1) {  # unprocessed IAC
        $nextchar = substr $s->{buf}, $pos + 1, 1;
        #
    }
}
## Save command if it's only partially read.

if (!length $nextchar) {
    $s->{pushback_buf} .= "$\377";
    chop $s->{buf};
    last;
}

if ($nextchar eq "$\377") {  # IAC is escaping "$\377" char
    ## Remove escape char from data stream.
    substr($s->{buf}, $pos, 1) = "";
    $pos++;
}

elsif ($nextchar eq "$\375" or $nextchar eq "$\373" or
    $nextchar eq "$\374" or $nextchar eq "$\376") {  # opt negotiation
    $option = substr $s->{buf}, $pos + 2, 1;
    ## Save command if it's only partially read.
    if (!length $option) {
        $s->{pushback_buf} .= "$\377" . $nextchar;
        chop $s->{buf};
        chop $s->{buf};
        last;
    }
    ## Remove command from data stream.
    substr($s->{buf}, $pos, 3) = "";
    ## Handle option negotiation.
    &_negotiate_recv($self, $s, $nextchar, ord($option), $pos);
}

elsif ($nextchar eq "$\372") {  # start of subnegotiation parameters
    ## Save command if it's only partially read.
    $endpos = index $s->{buf}, "$\360", $pos;
    if ($endpos == -1) {
        $s->{pushback_buf} .= substr $s->{buf}, $pos;
        substr($s->{buf}, $pos) = "";
        ## Invoke subnegotiation callback.
        if ($s->{subopt_cback} and length($subcmd) >= 5) {
            $option = unpack "C", substr($subcmd, 2, 1);
            ## Remove subnegotiation cmd from buffer.
            $subcmd = substr($s->{buf}, $pos, $endpos - $pos + 1);
            substr($s->{buf}, $pos) = "";
            if (length($subcmd) >= 6) {
                ## Invoke subnegotiation callback.
            }
        }
    }
}
$parameters = substr $subcmd, 3, length($subcmd) - 5;
}
else {
    $parameters = "";
}

$callback = $s->{subopt_cback};
&$callback($self, $option, $parameters);
}
else {  # various two char telnet commands
    ## Ignore and remove command from data stream.
    substr($s->{buf}, $pos, 2) = "";
}

## Try to send any waiting option negotiation.
if (length $s->{unsent_opts}) {
    &_flush_opts($self);
}
1;
} # end sub _interpret_tcmd

sub _io_socket_include {
    local $SIG{"__DIE__"} = "DEFAULT";
    eval "require IO::Socket";
} # end sub io_socket_include

sub _log_dump {
    my ($direction, $fh, $data, $offset, $len) = @_;
    my ($addr,
        $hexvals,
        $line,
    );

    $addr = 0;
    $len = length($$data) - $offset
    if !defined $len;
        return 1 if $len <= 0;
    
    ## Print data in dump format.
    while ($len > 0) {
        ## Convert up to the next 16 chars to hex, padding w/ spaces.
        if ($len >= 16) {
$line = substr $data, $offset, 16;
}
else {
 $line = substr $data, $offset, $len;
}
$hexvals = unpack("H*", $line);
$hexvals .= ' ' x (32 - length $hexvals);
## Place in 16 columns, each containing two hex digits.
$hexvals = sprintf("%s %s %s %s  " x 4,
   unpack("a2" x 16, $hexvals));

## For the ASCII column, change unprintable chars to a period.
$line =~ s/[\000-\037,\177-\237]/./g;

## Print the line in dump format.
&_log_print($fh, sprintf("%s 0x%5.5lx: %s%s
",
   $direction, $addr, $hexvals, $line));

$addr += 16;
$offset += 16;
$len -= 16;
}

&_log_print($fh, "\n");

1;
} # end sub _log_dump

sub _log_option {
    my ($fh, $direction, $request, $option) = @_;
    my ($name,
        );
    if ($option >= 0 and $option <= $#Telopts) {
        $name = $Telopts[$option];
    }
    else {
        $name = $option;
    }

    &_log_print($fh, "$direction $request $name\n");
} # end sub _log_option

sub _log_print {
my ($fh, $buf) = @_;  
local $\ = "\; 

if (ref($fh) and ref($fh) ne "GLOB") {  # fh is blessed ref 
$fh->print($buf); 
} 
else {  # fh isn't blessed ref 
print $fh $buf; 
} 
}  # end sub _log_print 

sub _match_check { 
my ($self, $code) = @_; 
my $error; 
my @warns = (); 

## Use eval to check for syntax errors or warnings. 
{ 
local $SIG{"__DIE__"} = "DEFAULT"; 
local $SIG{"__WARN__"} = sub { push @warns, @_ }; 
local $^W = 1; 
local $_ = ''; 
eval "$_ =~ $code;"; 
} 
if ($@) {  
## Remove useless lines numbers from message. 
($error = $@) =~ s/ at (eval \d+) line \d+.?//; 
chomp $error; 
return $self->error("bad match operator: $error"); 
} 
elsif (@warns) { 
## Remove useless lines numbers from message. 
($error = shift @warns) =~ s/ at (eval \d+) line \d+.?//; 
$error =~ s/ while "strict subs" in use/; 
chomp $error; 
return $self->error("bad match operator: $error"); 
} 
1; 
}  # end sub _match_check 

sub _negotiate_callback { 
my ($self, $opt, $is_remote, $is_enabled, $was_enabled, $opt_bufpos) = @_; 
my ( 
$callback, 
$s, 

local $_;

## Keep track of remote echo.
if ($is_remote and $opt == &TELOPT_ECHO) {  # received WILL or WONT ECHO
$s = *$self->{net_telnet};

if ($is_enabled and !$was_enabled) {  # received WILL ECHO
    $s->{remote_echo} = 1;
}
elsif (!$is_enabled and $was_enabled) {  # received WONT ECHO
    $s->{remote_echo} = ";
}

## Invoke callback, if there is one.
$callback = $self->option_callback;
if ($callback) {
    &$callback($self, $opt, $is_remote,
        $is_enabled, $was_enabled, $opt_bufpos);
}
1;
}  # end sub _negotiate_callback

sub _negotiate_recv {
    my ($self, $s, $opt_request, $opt, $opt_bufpos) = @_;

    ## Ensure data structure exists for this option.
    unless (defined $s->{opts}{$opt}) {
        &_set_default_option($s, $opt);
    }

    ## Process the option.
    if ($opt_request eq \376) {  # DONT
        &_negotiate_recv_disable($self, $s, $opt, "dont", $opt_bufpos,
            $s->{opts}{$opt}{local_enable_ok},
            \$s->{opts}{$opt}{local_enabled},
            \$s->{opts}{$opt}{local_state});
    }
    elsif ($opt_request eq \375) {  # DO
        &_negotiate_recv_enable($self, $s, $opt, "do", $opt_bufpos,
            $s->{opts}{$opt}{local_enable_ok},
            \$s->{opts}{$opt}{local_enabled},
            \$s->{opts}{$opt}{local_state});
    }
    elsif ($opt_request eq \374) {  # WONT

&_negotiate_recv_disable($self, $s, $opt, "wont", $opt_bufpos,
$s->{opts}[$opt]{remote_enable_ok},
\$s->{opts}[$opt]{remote_enabled},
\$s->{opts}[$opt]{remote_state});
}
elsif ($opt_request eq "\373") {  # WILL
&_negotiate_recv_enable($self, $s, $opt, "will", $opt_bufpos,
$s->{opts}[$opt]{remote_enable_ok},
\$s->{opts}[$opt]{remote_enabled},
\$s->{opts}[$opt]{remote_state});
}
else {  # internal error
die;
}
1;
} # end sub _negotiate_recv

sub _negotiate_recv_disable {
  my ($self, $s, $opt, $opt_request,
  $opt_bufpos, $enable_ok, $is_enabled, $state) = @_;
  my ($ack, $disable_cmd, $enable_cmd, $is_remote, $nak, $was_enabled);
  ## What do we use to request enable/disable or respond with ack/nak.
  if ($opt_request eq "wont") {
    $enable_cmd  = "\377\375" . pack("C", $opt);  # do command
    $disable_cmd = "\377\376" . pack("C", $opt);  # dont command
    $is_remote = 1;
    $ack = "DO";
    $nak = "DONT";
    &_log_option($s->{opt_log}, "RCVD", "WONT", $opt)
  } elsif ($opt_request eq "dont") {
    $enable_cmd  = "\377\373" . pack("C", $opt);  # will command
    $disable_cmd = "\377\374" . pack("C", $opt);  # wont command
    $is_remote = '';
    $ack = "WILL";
    $nak = "WONT";
  }
  &_log_option($s->{opt_log}, "$opt_request", "$option", $opt)
&_log_option($s->{opt_log}, "RCVD", "DON'T", $opt)
  if $s->{opt_log};
}
else {  # internal error
die;
}

## Respond to WONT or DONT based on the current negotiation state.
if ($$state eq "no") {  # state is already disabled
}
elseif ($$state eq "yes") {  # they're initiating disable
$$is_enabled = "";
$$state = "no";

## Send positive acknowledgment.
$s->{unsent_opts} .= $disable_cmd;
&_log_option($s->{opt_log}, "SENT", $nak, $opt)
  if $s->{opt_log};

## Invoke callbacks.
&_negotiate_callback($self, $opt, $is_remote,
     $$is_enabled, $was_enabled, $opt_bufpos);
}
elseif ($$state eq "wantno") {  # they sent positive ack
$$is_enabled = "";
$$state = "no";

## Invoke callback.
&_negotiate_callback($self, $opt, $is_remote,
     $$is_enabled, $was_enabled, $opt_bufpos);
}
elseif ($$state eq "wantno opposite") {  # pos ack but we changed our mind
## Indicate disabled but now we want to enable.
$$is_enabled = "";
$$state = "wantyes";

## Send queued request.
$s->{unsent_opts} .= $enable_cmd;
&_log_option($s->{opt_log}, "SENT", $ack, $opt)
  if $s->{opt_log};

## Invoke callback.
&_negotiate_callback($self, $opt, $is_remote,
     $$is_enabled, $was_enabled, $opt_bufpos);
}
elseif ($$state eq "wantyes") {  # they sent negative ack
$$is_enabled = "";
$$\text{state} = "\text{no}";

## Invoke callback.
&_negotiate_callback($self, $opt, $is_remote,
    $$is\_enabled, $was\_enabled, $opt\_bufpos);
}
elsif ($$state eq "wantyes opposite") {  # nak but we changed our mind
    $$is\_enabled = ";
    $$state = "no";

## Invoke callback.
&_negotiate_callback($self, $opt, $is_remote,
    $$is\_enabled, $was\_enabled, $opt\_bufpos);
}
}  # end sub _negotiate_recv_disable

sub _negotiate_recv_enable {
    my ($self, $s, $opt, $opt_request,
        $opt_bufpos, $enable_ok, $is\_enabled, $state) = @_;
    my ($ack,
        $disable\_cmd,
        $enable\_cmd,
        $is\_remote,
        $nak,
        $was\_enabled,
    );

## What we use to send enable/disable request or send ack/nak response.
    if ($opt\_request eq "will") {
        $enable\_cmd  = \"\377\375\" . pack("C", $opt);  # do command
        $disable\_cmd = \"\377\376\" . pack("C", $opt);  # dont command
        $is\_remote = 1;
        $ack = "DO";
        $nak = "DONT";
        &_log\_option($s->{opt\_log}, "RCVD", "WILL", $opt)
        if ($s->{opt\_log});
    } elsif ($opt\_request eq "do") {
        $enable\_cmd  = \"\377\373\" . pack("C", $opt);  # will command
        $disable\_cmd = \"\377\374\" . pack("C", $opt);  # wont command
        $is\_remote = ";
        $ack = "WILL";
        $nak = "WONT";
        &_log\_option($s->{opt\_log}, "RCVD", "DO", $opt)
    }
if $s->{opt_log};
}
else {  # internal error
die;
}

## Save current enabled state.
$was_enabled = $$is_enabled;

## Respond to WILL or DO based on the current negotiation state.
if ($$state eq "no") {  # they're initiating enable
  if ($enable_ok) {  # we agree they/us should enable
    $$is_enabled = 1;
    $$state = "yes";
  }
  else {  # we disagree they/us should enable
    ## Send negative acknowledgment.
    $s->{unsent_opts} .= $disable_cmd;
    &_log_option($s->{opt_log}, "SENT", $nak, $opt)
    if $s->{opt_log};
    }
  }
else {  # state is already enabled
  }
elsif ($$state eq "wantno") {  # error: our disable req answered by enable
  $$is_enabled = 
  $$state = "no";
  ## Invoke callbacks.
  &_negotiate_callback($self, $opt, $is_remote,
  $$is_enabled, $was_enabled, $opt_bufpos);
  }
elsif ($$state eq "wantno opposite") { # err: disable req answered by enable
  $$is_enabled = 1;
  $$state = "yes";
  ## Invoke callbacks.
  &_negotiate_callback($self, $opt, $is_remote,
  $$is_enabled, $was_enabled, $opt_bufpos);
  }
elseif ($$state eq "yes") {  # state is already enabled
    }
  }
elseif ($$state eq "wantno") {  # error: our disable req answered by enable
    $$is_enabled = "
    $$state = "no";
    ## Invoke callbacks.
    &_negotiate_callback($self, $opt, $is_remote,
    $$is_enabled, $was_enabled, $opt_bufpos);
    }
elseif ($$state eq "wantno opposite") { # err: disable req answered by enable
    $$is_enabled = 1;
    $$state = "yes";
    ## Invoke callbacks.
    &_negotiate_callback($self, $opt, $is_remote,
    $$is_enabled, $was_enabled, $opt_bufpos);
elsif ($state eq "wantyes") { # they sent pos ack
  $$is_enabled = 1;
  $$state = "yes";

  ## Invoke callback.
  &_negotiate_callback($self, $opt, $is_remote,
    $$is_enabled, $was_enabled, $opt_bufpos);
}

elsif ($$state eq "wantyes opposite") { # pos ack but we changed our mind
  ## Indicate enabled but now we want to disable.
  $$is_enabled = 1;
  $$state = "wantno";

  ## Inform other side we changed our mind.
  $s->{unsent_opts} .= $disable_cmd;
  &_log_option($s->{opt_log}, "SENT", $nak, $opt)
    if $s->{opt_log};

  ## Invoke callback.
  &_negotiate_callback($self, $opt, $is_remote,
    $$is_enabled, $was_enabled, $opt_bufpos);
}

1;
} # end sub _negotiate_recv_enable

sub _new_handle {
  if ($INC{"IO/Handle.pm")} { return IO::Handle->new;
    }
  else {
    require FileHandle;
    return FileHandle->new;
  }
} # end sub _new_handle

sub _next_getlines {
  my ($self, $s) = @_;
  my ($len,
    $line,
    $pos,
    @lines,
  );
## Fill buffer and get first line.

```perl
$line = $self->getline
or return;
push @lines, $line;
```

## Extract subsequent lines from buffer.

```perl
while (($pos = index($s->{buf}, $s->{rs})) != -1) {
  $len = $pos + length $s->{rs};
push @lines, substr($s->{buf}, 0, $len);
substr($s->{buf}, 0, $len) = "";
}
```

@lines;
```
```}
``` # end sub _next_getlines

sub _opt_accept {
  my ($self, @args) = @_;
  my ( $arg, $option, $s, $s);

  ## Init.
  $s = *$self->{net_telnet};

  foreach $arg (@args) {
    ## Ensure data structure defined for this option.
    $option = $arg->{option};
    if (!defined $s->{opts}{$option}) {
      &_set_default_option($s, $option);
    }
  }

  ## Save whether we'll accept or reject this option.
  if ($arg->{is_remote}) {
    $s->{opts}{$option}{remote_enable_ok} = $arg->{is_enable};
  } else {
    $s->{opts}{$option}{local_enable_ok} = $arg->{is_enable};
  }
  1;
} # end sub _opt_accept

sub _optimal_blksize {
my ($blksize) = @_;  
local $^W = '';  # avoid non-numeric warning for ms-windows blksize of ""

## Use default when block size is invalid. 
return 8192 
unless defined $blksize and $blksize >= 1 and $blksize <= 1_048_576;

$blksize;
} # end sub _optimal_blksize

sub _parse_cmd_remove_mode {
my ($self, $mode) = @_; 

if (!$defined $mode) {
$mode = 0;
}
elsif ($mode =~ /\s*auto\s*/i) {
$mode = "auto";
}
elsif ($mode =~ /\s*d\s*/i) {
&_carp($self, "ignoring bad Cmd_remove_mode ",  
"argument \"$mode\": it's not "auto" or a ".
"non-negative integer");

$mode = *$self->{net_telnet}{cmd_rm_mode};
}

$mode;
} # end sub _parse_cmd_remove_mode

sub _parse_errmode {
my ($self, $errmode) = @_; 

## Set the error mode.
if (!$defined $errmode) {
&_carp($self, "ignoring undefined Errmode argument");
$errmode = *$self->{net_telnet}{errormode};
}
elsif ($errmode =~ /\s*return\s*/i) {
$errmode = "return";
}
elsif ($errmode =~ /\s*d\s*/i) {
$errmode = "die";
}
elsif (ref($errmode) eq "CODE") {
}
elsif (ref($errmode) eq "ARRAY") {
unless (ref($errmode->[0]) eq "CODE") {
    &_carp($self, "ignoring bad Errmode argument: ".
    "first list item isn't a code ref");
    $errmode = *$self->{net_telnet}{errormode};
}
}
else {
    &_carp($self, "ignoring bad Errmode argument \"$errmode\\" ");
    $errmode = *$self->{net_telnet}{errormode};
}
$errmode;
} # end sub _parse_errmode

sub _parse_input_record_separator {
    my ($self, $rs) = @_;

    unless (defined $rs and length $rs) {
        &_carp($self, "ignoring null Input_record_separator argument");
        $rs = *$self->{net_telnet}{rs};
    }

    $rs;
} # end sub _parse_input_record_separator

sub _parse_prompt {
    my ($self, $prompt) = @_;

    unless (defined $prompt) {
        $prompt = "";
    }

    unless ($prompt =~ m(\s*) or $prompt =~ m(\^s*m\s*W)) {
        &_carp($self, "ignoring bad Prompt argument \"$prompt\": ".
        "missing opening delimiter of match operator");
        $prompt = *$self->{net_telnet}{cmd_prompt};
    }

    $prompt;
} # end sub _parse_prompt

sub _parse_timeout {
    my ($self, $timeout) = @_;

    ## Ensure valid timeout.

if (defined $timeout) {
  ## Test for non-numeric or negative values.
  eval {
    local $SIG{"__DIE__"} = "DEFAULT";
    local $SIG{"__WARN__"} = sub { die "non-numeric\n" };
    local $^W = 1;
    $timeout *= 1;
  };
  if ($@) {  # timeout arg is non-numeric
    &_carp($self,
      "ignoring non-numeric Timeout argument "$timeout"\n";
    $timeout = *$self->{net_telnet}{time_out};
  }
  elsif ($timeout < 0) {  # timeout arg is negative
    &_carp($self, "ignoring negative Timeout argument "$timeout"\n";
    $timeout = *$self->{net_telnet}{time_out};
  }
  $timeout;
} # end sub _parse_timeout

sub _put {
  my ($self, $buf, $subname) = @_;
  my ($endtime, $len, $nfound, $nwrote, $offset, $ready, $s, $timed_out, $timeout, $zero_wrote_count);
  ## Init.
  $s = *$self->{net_telnet};
  $s->{num_wrote} = 0;
  $zero_wrote_count = 0;
  $offset = 0;
  $len = length $$buf;
  $endtime = &_endtime($s->{time_out});
  return $self->error("write error: filehandle isn't open")
    unless $s->{opened};
  }

## Init.
$s = *$self->{net_telnet};
$s->{num_wrote} = 0;
$zero_wrote_count = 0;
$offset = 0;
$len = length $$buf;
$endtime = &_endtime($s->{time_out});

  return $self->error("write error: filehandle isn't open")
unless $s->{opened};
## Try to send any waiting option negotiation.
if (length $s->{unsent_opts}) {
    &_flush_opts($self);
}

## Write until all data blocks written.
while ($len) {
## Determine how long to wait for output ready.
($timed_out, $timeout) = &_timeout_interval($endtime);
if ($timed_out) {
    $s->{timedout} = 1;
    return $self->error("$subname timed-out");
}

## Wait for output ready.
$nfound = select "", $ready=$s->{fdmask}, "", $timeout;

## Handle any errors while waiting.
if (!defined $nfound or $nfound <= 0) {  # output not ready
    if (defined $nfound and $nfound == 0) {  # timed-out
        $s->{timedout} = 1;
        return $self->error("$subname timed-out");
    }
    else {  # error waiting for output ready
        next if $! =~ /^interrupted/i;
    }
}

## Write the data.
$nwrote = syswrite $self, $$buf, $len, $offset;

## Handle any write errors.
if (!defined $nwrote) {  # write failed
    next if $! =~ /^interrupted/i;  # restart interrupted syscall

    $s->{opened} = "";
    return $self->error("write error: $!");
}
else if ($nwrote == 0) {  # zero chars written
    ## Try ten more times to write the data.
    if ($zero_wrote_count++ <= 10) {
        &_sleep(0.01);
    }
}

##
Simple function to set opened flag.

$s->{opened} = ''; return$self->error("write error: zero length write: $!");

## Display network traffic if requested.
if ($s->{dumplog}) {
    &log_dump('>', $s->{dumplog}, $buf, $offset, $nwrite);
}

## Increment.
$s->{num_wrote} += $nwrite;
$offset += $nwrite;
$len -= $nwrite;
}

1;
} # end sub _put

sub _qualify_fh {
    my ($obj, $name) = @_; my ($user_class,);
    local $_;
    ## Get user's package name.
    ($user_class) = &user_caller($obj);
    ## Ensure name is qualified with a package name.
    $name = qualify($name, $user_class);
    ## If it's not already, make it a typeglob ref.
    if (!ref $name) {
        no strict;
        local $^W = 0;

        $name =~ s/^\+//;
        $name = eval '\*$name'; return unless ref $name;
    }

    $name;
} # end sub _qualify_fh

sub _reset_options {


my ($opts) = @_;  
my (  
$opt,  
);  

foreach $opt (keys %$opts) {  
$opts->{$opt}{remote_enabled} = "";  
$opts->{$opt}{remote_state} = "no";  
$opts->{$opt}{local_enabled} = "";  
$opts->{$opt}{local_state} = "no";  
}  
1;  
} # end sub _reset_options  

sub _save_lastline {  
my ($s) = @_;  
my (  
$firstpos,  
$lastpos,  
$len_w_sep,  
$len_wo_sep,  
$offset,  
);  
my $rs = "\n";  

if (($lastpos = rindex $s->{buf}, $rs) > -1) { # eol found  
   while (1) {  
      ## Find beginning of line.  
      $firstpos = rindex $s->{buf}, $rs, $lastpos - 1;  
      if ($firstpos == -1) {  
         $offset = 0;  
      } else {  
         $offset = $firstpos + length $rs;  
      }  
   }  
   ## Determine length of line with and without separator.  
   $len_wo_sep = $lastpos - $offset;  
   $len_w_sep = $len_wo_sep + length $rs;  
   ## Save line if it's not blank.  
   if (substr($s->{buf}, $offset, $len_wo_sep)  
      !~ /^\s*$/ )  
      {  
         $s->{last_line} = substr($s->{buf}, $offset,  
          
   }  

##
sub _save_lastline {
    $lastpos = $firstpos;
    last if $firstpos == -1;

    $lastpos = $firstpos;
}

1;
} # end sub _save_lastline

sub _set_default_option {  
    my ($s, $option) = @_;  
    $s->{opts}{$option} = {
        remote_enabled   => '',
        remote_state     => "no",
        remote_enable_ok => '',
        local_enabled    => '',
        local_state      => "no",
        local_enable_ok  => ''
    };
} # end sub _set_default_option

sub _sleep { 
    my ($secs) = @_;  
    my $bitmask = ''; 
    local *SOCK; 
    socket SOCK, AF_INET, SOCK_STREAM, 0; 
    vec($bitmask, fileno(SOCK), 1) = 1; 
    select $bitmask, '', '', $secs; 
    CORE::close SOCK; 
    1;
} # end sub _sleep

sub _timeout_interval { 
    my ($endtime) = @_; 
    my ($timeout, $time); 
    }
## Return timed-out boolean and timeout interval.
if (defined $endtime) {
## Is it a one-time poll.
    return ('', 0) if $endtime == 0;

## Calculate the timeout interval.
    $timeout = $endtime - time;

## Did we already timeout.
    return (1, 0) unless $timeout > 0;

return ('', $timeout);
}
else {  # there is no timeout
    return ('', undef);
}
} # end sub _timeout_interval

sub _user_caller {
    my ($obj) = @_; 
    my ($class, $curr_pkg, $file, $i, $line, $pkg, %isa, @isa,);
    local $_; 

    ## Create a boolean hash to test for isa.  Make sure current 
    ## package and the object's class are members.
    $class = ref $obj;
    @isa = eval "\@${class}::ISA";
    push @isa, $class;
    ($curr_pkg) = caller 1;
    push @isa, $curr_pkg;
    %isa = map { $_. => 1 } @isa;

    ## Search back in call frames for a package that's not in isa.
    $i = 1;
    while (($pkg, $file, $line) = caller ++$i) {
        next if $isa{$pkg};
        return ($pkg, $file, $line);
    }

    return ($pkg, $file, $line);
}
## If not found, choose outer most call frame.

($pkg, $file, $line) = caller --$i;
return ($pkg, $file, $line);
} # end sub _user_caller

sub _verify_telopt_arg {
  my ($self, $option, $argname) = @_;

  ## If provided, use argument name in error message.
  if (defined $argname) {
    $argname = "for arg $argname";
  } else {
    $argname = "";
  }

  ## Ensure telnet option is a non-negative integer.
  eval {
    local $SIG{"__DIE__"} = "DEFAULT";
    local $SIG{"__WARN__"} = sub { die "non-numeric\n" };  
    local $^W = 1;
    $option = abs(int $option);
    return $self->error("bad telnet option $argname: non-numeric")
   if $@;

    return $self->error("bad telnet option $argname: option > 255")
   unless $option <= 255;

    $option;
  } # end sub _verify_telopt_arg

################################ Exported Constants ################################

sub TELNET_IAC () {255}; # interpret as command:
sub TELNET_DONT() {254}; # you are not to use option
sub TELNET_DO () {253}; # please, you use option
sub TELNET_WONT () {252}; # I won't use option
sub TELNET_WILL () {251}; # I will use option
sub TELNET_SB () {250}; # interpret as subnegotiation
sub TELNET_GA () {249}; # you may reverse the line
sub TELNET_EL () {248}; # erase the current line
sub TELNET_EC () {247}; # erase the current character
sub TELNET_AYT ()    {246}; # are you there
sub TELNET_AO ()     {245}; # abort output--but let prog finish
sub TELNET_IP ()     {244}; # interrupt process--permanently
sub TELNET_BREAK ()  {243}; # break
sub TELNET_DM ()     {242}; # data mark--for connect. cleaning
sub TELNET_NOP ()    {241}; # nop
sub TELNET_SE ()     {240}; # end sub negotiation
sub TELNET_EOR ()    {239}; # end of record (transparent mode)
sub TELNET_ABORT ()  {238}; # Abort process
sub TELNET_SUSP ()   {237}; # Suspend process
sub TELNET_EOF ()    {236}; # End of file
sub TELNET_SYNCH ()  {242}; # for telfunc calls

sub TELOPT_BINARY ()  {0}; # Binary Transmission
sub TELOPT_ECHO ()    {1}; # Echo
sub TELOPT_RCP ()     {2}; # Reconnection
sub TELOPT_SGA ()     {3}; # Suppress Go Ahead
sub TELOPT_NAMS ()    {4}; # Approx Message Size Negotiation
sub TELOPT_STATUS ()  {5}; # Status
sub TELOPT_TM ()      {6}; # Timing Mark
sub TELOPT_RCTE ()    {7}; # Remote Controlled Trans and Echo
sub TELOPT_NAOL ()    {8}; # Output Line Width
sub TELOPT_NAOP ()    {9}; # Output Page Size
sub TELOPT_NAOCRDR()  {10}; # Output Carriage-Return Disposition
sub TELOPT_NAOHTS()   {11}; # Output Horizontal Tab Stops
sub TELOPT_NAOHTRD()  {12}; # Output Horizontal Tab Disposition
sub TELOPT_NAOFFD()   {13}; # Output Formfeed Disposition
sub TELOPT_NAOWTS()   {14}; # Output Vertical Tabstops
sub TELOPT_NAOVTD()   {15}; # Output Vertical Tab Disposition
sub TELOPT_NAOLF()    {16}; # Output Linefeed Disposition
sub TELOPT_XASCII()   {17}; # Extended ASCII
sub TELOPT_LOGOUT()   {18}; # Logout
sub TELOPT_BM ()      {19}; # Byte Macro
sub TELOPT_DET ()     {20}; # Data Entry Terminal
sub TELOPT_SUPDUP ()  {21}; # SUPDUP
sub TELOPT_SUPDUPOUTPUT () {22}; # SUPDUP Output
sub TELOPT_SDLC()     {23}; # Send Location
sub TELOPT_TTYPE ()   {24}; # Terminal Type
sub TELOPT_EOR ()     {25}; # End of Record
sub TELOPT_TUID ()    {26}; # TACACS User Identification
sub TELOPT_OUTMRK ()  {27}; # Output Marking
sub TELOPT_TTYLOC ()  {28}; # Terminal Location Number
sub TELOPT_3270REGIME () {29}; # Telnet 3270 Regime
sub TELOPT_X3PAD ()   {30}; # X.3 PAD
sub TELOPT_NAWS ()    {31}; # Negotiate About Window Size
sub TELOPT_TSPEED ()  {32}; # Terminal Speed
sub TELOPT_LFLOW ()   {33}; # Remote Flow Control
sub TELOPT_LINEMODE () {34}; # Linemode
sub TELOPT_XDISPLOC () {35}; # X Display Location
sub TELOPT_OLD_ENVIRON () {36}; # Environment Option
sub TELOPT_AUTHENTICATION () {37}; # Authentication Option
sub TELOPT_ENCRYPT () {38}; # Encryption Option
sub TELOPT_NEW_ENVIRON () {39}; # New Environment Option
sub TELOPT_EXOPL () {255}; # Extended-Options-List

1;
__END__:

############################################################### User Documentation###############################################################

## To format the following documentation into a more readable format, use one of these programs: perldoc; pod2man; pod2html; pod2text.
## For example, to nicely format this documentation for printing, you may use pod2man and groff to convert to postscript:
## pod2man Net/Telnet.pm | groff -man -Tps > Net::Telnet.ps

=head1 NAME
Net::Telnet - interact with TELNET port or other TCP ports

=head1 SYNOPSIS
C<use Net::Telnet ();>

see METHODS section below

=head1 DESCRIPTION
Net::Telnet allows you to make client connections to a TCP port and do network I/O, especially to a port using the TELNET protocol. Simple I/O methods such as print, get, and getline are provided. More sophisticated interactive features are provided because connecting to a TELNET port ultimately means communicating with a program designed for human interaction. These interactive features include the ability to specify a time-out and to wait for patterns to appear in the input stream, such as the prompt from a shell.

Other reasons to use this module than strictly with a TELNET port are:

=over 2
=item *

You're not familiar with sockets and you want a simple way to make client connections to TCP services.

You want to be able to specify your own time-out while connecting, reading, or writing.

You're communicating with an interactive program at the other end of some socket or pipe and you want to wait for certain patterns to appear.

Here's an example that prints who's logged-on to the remote host sparky. In addition to a username and password, you must also know the user's shell prompt, which for this example is $bash$

```perl
use Net::Telnet ();
$t = new Net::Telnet (Timeout => 10,
    Prompt => '/bash$ $/');
$t->open("sparky");
$t->login($username, $passwd);
@lines = $t->cmd("who");
print @lines;
```

More examples are in the EXAMPLES section below.

Usage questions should be directed to the Usenet newsgroup comp.lang.perl.modules.

Contact me, Jay Rogers <jay@rgrs.com>, if you find any bugs or have suggestions for improvement.

What To Know Before Using

All output is flushed while all input is buffered. Each object contains its own input buffer.

The output record separator for print() and cmd() is set to
C"\n" by default, so that you don’t have to append all your commands with a newline. To avoid printing a trailing C"\n" use C<put()> or set the I<output_record_separator> to C"".

=item *

The methods C<login()> and C<cmd()> use the I<prompt> setting in the object to determine when a login or remote command is complete. Those methods will fail with a time-out if you don’t set the prompt correctly.

=item *

Use a combination of C<print()> and C<waitfor()> as an alternative to C<login()> or C<cmd()> when they don’t do what you want.

=item *

Errors such as timing-out are handled according to the error mode action. The default action is to print an error message to standard error and have the program die. See the C<errmode()> method for more information.

=item *

When constructing the match operator argument for C<prompt()> or C<waitfor()>, always use single quotes instead of double quotes to avoid unexpected backslash interpretation (e.g. C</bash\$ $/>). If you’re constructing a DOS like file path, you’ll need to use four backslashes to represent one (e.g. C</c:\\\users\\billE<gt>$/$/>).

Of course don’t forget about regexp metacharacters like C.<>, C[{}], or C<$>. You’ll only need a single backslash to quote them. The anchor metacharacters C<^> and C<$> refer to positions in the input buffer. To avoid matching characters read that look like a prompt, it’s a good idea to end your prompt pattern with the C<$> anchor. That way the prompt will only match if it’s the last thing read.

=item *

In the input stream, each sequence of I<carriage return> and I<line feed> (i.e. C<\015\012>) or CR LF) is converted to C"\n". In the output stream, each occurrence of C"\n" is converted to a sequence of CR LF. See C<binmode()> to change the behavior. TCP protocols typically use the ASCII sequence, carriage return and line feed to designate a newline.

=item *
Timing-out while making a connection is disabled for machines that don't support the `alarm()` function. Most notably these include MS-Windows machines.

You'll need to be running at least Perl version 5.002 to use this module. This module does not require any libraries that don't already come with a standard Perl distribution.

If you have the IO:: libraries installed (they come standard with perl5.004 and later) then IO::Socket::INET is used as a base class, otherwise FileHandle is used.

Contact me, Jay Rogers <jay@rgrs.com>, if you find any bugs or have suggestions for improvement.

=head2 Debugging

The typical usage bug causes a time-out error because you've made incorrect assumptions about what the remote side actually sends. The easiest way to reconcile what the remote side sends with your expectations is to use `input_log()` or `dump_log()`.

`dump_log()` allows you to see the data being sent from the remote side before any translation is done, while `input_log()` shows you the results after translation. The translation includes converting end of line characters, removing and responding to TELNET protocol commands in the data stream.

=head2 Style of Named Parameters

Two different styles of named parameters are supported. This document only shows the IO:: style:

```
Net::Telnet->new(Timeout => 20);
```

However the dash-option style is also allowed:

```
Net::Telnet->new(-timeout => 20);
```

=head2 Connecting to a Remote MS-Windows Machine
By default MS-Windows doesn't come with a TELNET server. However third party TELNET servers are available. Unfortunately many of these servers falsely claim to be a TELNET server. This is especially true of the so-called "Microsoft Telnet Server" that comes installed with some newer versions MS-Windows.

When a TELNET server first accepts a connection, it must use the ASCII control characters carriage-return and line-feed to start a new line (see RFC854). A server like the "Microsoft Telnet Server" that doesn't do this, isn't a TELNET server. These servers send ANSI terminal escape sequences to position to a column on a subsequent line and to even position while writing characters that are adjacent to each other. Worse, when sending output these servers resend previously sent command output in a misguided attempt to display an entire terminal screen.

Connecting Net::Telnet to one of these false TELNET servers makes your job of parsing command output very difficult. It's better to replace a false TELNET server with a real TELNET server. The better TELNET servers for MS-Windows allow you to avoid the ANSI escapes by turning off something some of them call I<console mode>.

=head1 METHODS

In the calling sequences below, square brackets B<[ ]> represent optional parameters.

=over 4

=item B<new> - create a new Net::Telnet object

$obj = new Net::Telnet ([$host]);

$obj = new Net::Telnet ([Binmode    => $mode,]
  [Cmd_remove_mode => $mode,]
  [Dump_Log       => $filename,]
  [Errmode       => $errmode,]
  [Fhopen        => $filehandle,]
  [Host          => $host,]
  [Input_log     => $file,]
  [Input_record_separator => $chars,]
  [Option_log    => $file,]
  [Ors           => $chars,]
  [Output_log    => $file,]
  [Output_record_separator => $chars,]
  [Port          => $port,]
  [Prompt        => $matchop,]
This is the constructor for Net::Telnet objects. A new object is returned on success, the error mode action is performed on failure - see C<errmode()>. The optional arguments are short-cuts to methods of the same name.

If the I<$host> argument is given then the object is opened by connecting to TCP I<$port> on I<$host>. Also see C<open()>.

The new object returned is given the following defaults in the absence of corresponding named parameters:

=over 4
=item
The default I<Host> is C<"localhost">
=item
The default I<Port> is C<23>
=item
The default I<Prompt> is C<"/
[$%#E<gt>] $/>>
=item
The default I<Timeout> is C<10>
=item
The default I<Errmode> is C<"die”>
=item
The default I<Output_record_separator> is C<"\n">. Note that I<Ors> is synonymous with I<Output_record_separator>.
=item
The default I<Input_record_separator> is C<"\n">. Note that I<Rs> is synonymous with I<Input_record_separator>.
The default I<Binmode> is C<0>, which means do newline translation.

=item

The default I<Telnetmode> is C<1>, which means respond to TELNET commands in the data stream.

=item

The default I<Cmd_remove_mode> is C<"auto">

=item

The defaults for I<Dump_log>, I<Input_log>, I<Option_log>, and I<Output_log> are C<"">, which means that logging is turned-off.

=back

=back

=over 4

=item B<binmode> - toggle newline translation

$mode = $obj->binmode;

$prev = $obj->binmode($mode);

This method controls whether or not sequences of carriage returns and line feeds (CR LF or more specifically C<"\015\012">) are translated. By default they are translated (i.e. binmode is C<0>).

If no argument is given, the current mode is returned.

If I<$mode> is C<1> then binmode is I<on> and newline translation is not done.

If I<$mode> is C<0> then binmode is I<off> and newline translation is done. In the input stream, each sequence of CR LF is converted to C<"\n"> and in the output stream, each occurrence of C<"\n"> is converted to a sequence of CR LF.

Note that input is always buffered. Changing binmode doesn't effect what's already been read into the buffer. Output is not buffered and changing binmode will have an immediate effect.

=back
=over 4

=item B<break> - send TELNET break character

$ok = $obj->break;

This method sends the TELNET break character. This character is provided because it's a signal outside the ASCII character set which is currently given local meaning within many systems. It's intended to indicate that the Break Key or the Attention Key was hit.

This method returns C<1> on success, or performs the error mode action on failure.

=back

=over 4

=item B<buffer> - scalar reference to object's input buffer

$ref = $obj->buffer;

This method returns a scalar reference to the input buffer for I<$obj>. Data in the input buffer is data that has been read from the remote side but has yet to be read by the user. Modifications to the input buffer are returned by a subsequent read.

=back

=over 4

=item B<buffer_empty> - discard all data in object's input buffer

$obj->buffer_empty;

This method removes all data in the input buffer for I<$obj>.

=back

=over 4

=item B<close> - close object
$ok = $obj->close;

This method closes the socket, file, or pipe associated with the object. It always returns a value of C<1>.

=back

=over 4

=item B<cmd> - issue command and retrieve output

$ok = $obj->cmd($string);
$ok = $obj->cmd(String  => $string,
    [Output  => $ref,]
    [Cmd_remove_mode => $mode,]
    [Errmode => $mode,]
    [Input_record_separator => $chars,]
    [Ors   => $chars,]
    [Output_record_separator => $chars,]
    [Prompt => $match,]
    [Rs    => $chars,]
    [Timeout => $secs,]);

$output = $obj->cmd($string);
$output = $obj->cmd(String  => $string,
    [Output  => $ref,]
    [Cmd_remove_mode => $mode,]
    [Errmode => $mode,]
    [Input_record_separator => $chars,]
    [Ors   => $chars,]
    [Output_record_separator => $chars,]
    [Prompt => $match,]
    [Rs    => $chars,]
    [Timeout => $secs,]);

This method sends the command I<$string>, and reads the characters sent back by the command up until and including the matching prompt. It's assumed that the program to which you're sending is some kind of command prompting interpreter such as a shell.

The command I<$string> is automatically appended with the output_record_separator, By default that's C\"\n\". This is similar to someone typing a command and hitting the return key. Set the output_record_separator to change this behavior.

In a scalar context, the characters read from the remote side are discarded and C<1> is returned on success. On time-out, eof, or other
failures, the error mode action is performed. See C<errmode()>.

In a list context, just the output generated by the command is returned, one line per element. In other words, all the characters in between the echoed back command string and the prompt are returned. If the command happens to return no output, a list containing one element, the empty string is returned. This is so the list will indicate true in a boolean context. On time-out, eof, or other failures, the error mode action is performed. See C<errmode()>.

The characters that matched the prompt may be retrieved using C<last_prompt()>.

Many command interpreters echo back the command sent. In most situations, this method removes the first line returned from the remote side (i.e. the echoed back command). See C<cmd_remove_mode()> for more control over this feature.

Use C<dump_log()> to debug when this method keeps timing-out and you don't think it should.

Consider using a combination of C<print()> and C<waitfor()> as an alternative to this method when it doesn't do what you want, e.g. the command you send prompts for input.

The I<Output> named parameter provides an alternative method of receiving command output. If you pass a scalar reference, all the output (even if it contains multiple lines) is returned in the referenced scalar. If you pass an array or hash reference, the lines of output are returned in the referenced array or hash. You can use C<input_record_separator()> to change the notion of what separates a line.

Optional named parameters are provided to override the current settings of cmd_remove_mode, errmode, input_record_separator, ors, output_record_separator, prompt, rs, and timeout. Rs is synonymous with input_record_separator and ors is synonymous with output_record_separator.

=back

=over 4

=item B<cmd_remove_mode> - toggle removal of echoed commands

$mode = $obj->cmd_remove_mode;
$prev = $obj->cmd_remove_mode($mode);

This method controls how to deal with echoed back commands in the output returned by cmd(). Typically, when you send a command to the remote side, the first line of output returned is the command echoed back. Use this mode to remove the first line of output normally returned by cmd().

If no argument is given, the current mode is returned.

If I<$mode> is C<0> then the command output returned from cmd() has no lines removed. If I<$mode> is a positive integer, then the first I<$mode> lines of command output are stripped.

By default, I<$mode> is set to C<"auto">. Auto means that whether or not the first line of command output is stripped, depends on whether or not the remote side offered to echo. By default, Net::Telnet always accepts an offer to echo by the remote side. You can change the default to reject such an offer using C<option_accept()>.

A warning is printed to STDERR when attempting to set this attribute to something that's not C<"auto"> or a non-negative integer.

=back

=over 4

=item B<dump_log> - log all I/O in dump format

$fh = $obj->dump_log;

$fh = $obj->dump_log($fh);

$fh = $obj->dump_log($filename);

This method starts or stops dump format logging of all the object's input and output. The dump format shows the blocks read and written in a hexadecimal and printable character format. This method is useful when debugging, however you might want to first try C<input_log()> as it's more readable.

If no argument is given, the current log filehandle is returned. An empty string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned.
Otherwise, the argument is assumed to be the name of a file, the file is opened and a filehandle to it is returned. If the file can't be opened for writing, the error mode action is performed.

=back

=over 4

=item B<eof> - end of file indicator

$eof = $obj->eof;

This method returns C<1> if end of file has been read, otherwise it returns an empty string. Because the input is buffered this isn't the same thing as I<$obj> has closed. In other words I<$obj> can be closed but there still can be stuff in the buffer to be read. Under this condition you can still read but you won't be able to write.

=back

=over 4

=item B<errmode> - define action to be performed on error

$mode = $obj->errmode;

$prev = $obj->errmode($mode);

This method gets or sets the action used when errors are encountered using the object. The first calling sequence returns the current error mode. The second calling sequence sets it to I<$mode> and returns the previous mode. Valid values for I<$mode> are C<"die"> (the default), C<"return">, a I<coderef>, or an I<arrayref>.

When mode is C<"die"> and an error is encountered using the object, then an error message is printed to standard error and the program dies.

When mode is C<"return"> then the method generating the error places an error message in the object and returns an undefined value in a scalar context and an empty list in list context. The error message may be obtained using C<errmsg()>.

When mode is a I<coderef>, then when an error is encountered I<coderef> is called with the error message as its first argument.

Using this mode you may have your own subroutine handle errors. If
$<\text{coderef}>$ itself returns then the method generating the error returns undefined or an empty list depending on context.

When mode is an $<\text{arrayref}>$, the first element of the array must be a $<\text{coderef}>$. Any elements that follow are the arguments to $<\text{coderef}>$. When an error is encountered, the $<\text{coderef}>$ is called with its arguments. Using this mode you may have your own subroutine handle errors. If the $<\text{coderef}>$ itself returns then the method generating the error returns undefined or an empty list depending on context.

A warning is printed to STDERR when attempting to set this attribute to something that's not $<$"die"$>$, $<$"return"$>$, a $<\text{coderef}>$, or an $<\text{arrayref}>$ whose first element isn't a $<\text{coderef}>$.

=back

=over 4

=item B<errmsg> - most recent error message

$\text{msg} = \text{obj}->\text{errmsg};$

$\text{prev} = \text{obj}->\text{errmsg}(@\text{msgs});$

The first calling sequence returns the error message associated with the object. The empty string is returned if no error has been encountered yet. The second calling sequence sets the error message for the object to the concatenation of $<\text{@msgs}>$ and returns the previous error message. Normally, error messages are set internally by a method when an error is encountered.

=back

=over 4

=item B<error> - perform the error mode action

$\text{obj}->\text{error}(@\text{msgs});$

This method concatenates $<\text{@msgs}>$ into a string and places it in the object as the error message. Also see $\text{errmsg()}$. It then performs the error mode action. Also see $\text{errmode()}$.

If the error mode doesn't cause the program to die, then an undefined value or an empty list is returned depending on the context.
This method is primarily used by this class or a sub-class to perform the user requested action when an error is encountered.

=back

=over 4

=item B<fhopen> - use already open filehandle for I/O

$ok = $obj->fhopen($fh);

This method associates the open filehandle I<$fh> with I<$obj> for further I/O. Filehandle I<$fh> must already be opened.

Suppose you want to use the features of this module to do I/O to something other than a TCP port, for example STDIN or a filehandle opened to read from a process. Instead of opening the object for I/O to a TCP port by using C<open()> or C<new()>, call this method instead.

The value C<1> is returned success, the error mode action is performed on failure.

=back

=over 4

=item B<get> - read block of data

$data = $obj->get(
  [Binmode    => $mode,]
  [Errmode    => $errmode,]
  [Telnetmode => $mode,]
  [Timeout    => $secs,]);

This method reads a block of data from the object and returns it along with any buffered data. If no buffered data is available to return, it will wait for data to read using the timeout specified in the object. You can override that timeout using I<$secs>. Also see C<timeout()> . If buffered data is available to return, it also checks for a block of data that can be immediately read.

On eof an undefined value is returned. On time-out or other failures, the error mode action is performed. To distinguish between eof or an error occurring when the error mode is not set to C"die", use C<eof()>.
Optional named parameters are provided to override the current settings of binmode, errmode, telnetmode, and timeout.

=back

=over 4

=item B<getline> - read next line

```
$line = $obj->getline([Binmode    => $mode,]
                    [Errmode    => $errmode,]
                    [Input_record_separator => $chars,]
                    [Rs         => $chars,]
                    [Telnetmode => $mode,]
                    [Timeout    => $secs,]);
```

This method reads and returns the next line of data from the object. You can use `input_record_separator()` to change the notion of what separates a line. The default is `"\n"`. If a line isn't immediately available, this method blocks waiting for a line or a time-out.

On eof an undefined value is returned. On time-out or other failures, the error mode action is performed. To distinguish between eof or an error occurring when the error mode is not set to `"die"`, use `eof()`.

Optional named parameters are provided to override the current settings of binmode, errmode, input_record_separator, rs, telnetmode, and timeout. Rs is synonymous with input_record_separator.

=back

=over 4

=item B<getlines> - read next lines

```
@lines = $obj->getlines([Binmode    => $mode,]
                         [Errmode    => $errmode,]
                         [Input_record_separator => $chars,]
                         [Rs         => $chars,]
                         [Telnetmode => $mode,]
                         [Timeout    => $secs,]
                         [All        => $boolean,]);
```

This method reads and returns all the lines of data from the object
until end of file is read. You can use C<input_record_separator()> to change the notion of what separates a line. The default is C"\n".
A time-out error occurs if all the lines can't be read within the time-out interval. See C<timeout()>.

The behavior of this method was changed in version 3.03. Prior to version 3.03 this method returned just the lines available from the next read. To get that old behavior, use the optional named parameter I<All> and set I<$boolean> to C"" or C<0>.

If only eof is read then an empty list is returned. On time-out or other failures, the error mode action is performed. Use C<eof()> to distinguish between reading only eof or an error occurring when the error mode is not set to C"die".

Optional named parameters are provided to override the current settings of binmode, errmode, input_record_separator, rs, telnetmode, and timeout. Rs is synonymous with input_record_separator.

=back

=over 4

=item B<host> - name of remote host

$host = $obj->host;

$prev = $obj->host($host);

This method designates the remote host for C<open()>.
With no argument it returns the current host name set in the object. With an argument it sets the current host name to I<$host> and returns the previous host name. You may indicate the remote host using either a hostname or an IP address.

The default value is C"localhost". It may also be set by C<open()> or C<new()>.

=back

=over 4

=item B<input_log> - log all input

$fh = $obj->input_log;
$fh = $obj->input_log($fh);

$fh = $obj->input_log($filename);

This method starts or stops logging of input. This is useful when debugging. Also see C<dump_log()>.
Because most command interpreters echo back commands received, it's likely all your output will also be in this log. Note that input logging occurs after newline translation. See C<binmode()> for details on newline translation.

If no argument is given, the log filehandle is returned. An empty string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned. Otherwise, the argument is assumed to be the name of a file, the file is opened for logging and a filehandle to it is returned. If the file can't be opened for writing, the error mode action is performed.

=back

=over 4

=item B<input_record_separator> - input line delimiter

$chars = $obj->input_record_separator;

$prev = $obj->input_record_separator($chars);

This method designates the line delimiter for input. It's used with C<getline()>, C<getlines()>, and C<cmd()> to determine lines in the input.

With no argument this method returns the current input record separator set in the object. With an argument it sets the input record separator to I<$chars> and returns the previous value. Note that I<$chars> must have length.

A warning is printed to STDERR when attempting to set this attribute to a string with no length.

=back

=over 4
=item B<last_prompt> - last prompt read

$string = $obj->last_prompt;

$prev = $obj->last_prompt($string);

With no argument this method returns the last prompt read by cmd() or login(). See C<prompt()> . With an argument it sets the last prompt read to I<$string> and returns the previous value. Normally, only internal methods set the last prompt.

=back

=over 4

=item B<lastline> - last line read

$line = $obj->lastline;

$prev = $obj->lastline($line);

This method retrieves the last line read from the object. This may be a useful error message when the remote side abnormally closes the connection. Typically the remote side will print an error message before closing.

With no argument this method returns the last line read from the object. With an argument it sets the last line read to I<$line> and returns the previous value. Normally, only internal methods set the last line.

=back

=over 4

=item B<login> - perform standard login

$ok = $obj->login($username, $password);

$ok = $obj->login(Name => $username, Password => $password, [Errmode => $mode,] [Prompt => $match,] [Timeout => $secs,]);

This method performs a standard login by waiting for a login prompt
and responding with I<$username>, then waiting for the password prompt
and responding with I<$password>, and then waiting for the command
interpreter prompt. If any of those prompts sent by the remote side
don't match what's expected, this method will time-out, unless timeout
is turned off.

Login prompt must match either of these case insensitive patterns:

/login[: ]*$/i
/username[: ]*$/i

Password prompt must match this case insensitive pattern:

/password[: ]*$/i

The command interpreter prompt must match the current setting of
prompt. See C<prompt()>.

Use C<dump_log()> to debug when this method keeps timing-out and you
don't think it should.

Consider using a combination of C<print()> and C<waitfor()> as an
alternative to this method when it doesn't do what you want, e.g. the
remote host doesn't prompt for a username.

On success, C<1> is returned. On time out, eof, or other failures,
the error mode action is performed. See C<errmode()>.

Optional named parameters are provided to override the current
settings of errmode, prompt, and timeout.

=back

=over 4

=item B<max_buffer_length> - maximum size of input buffer

$len = $obj->max_buffer_length;

$prev = $obj->max_buffer_length($len);

This method designates the maximum size of the input buffer. An error
is generated when a read causes the buffer to exceed this limit. The
default value is 1,048,576 bytes (1MB). The input buffer can grow
much larger than the block size when you continuously read using
Cgetline()> or C<waitfor()> and the data stream contains no newlines
or matching waitfor patterns.
With no argument, this method returns the current maximum buffer length set in the object. With an argument it sets the maximum buffer length to $len> and returns the previous value. Values of $len smaller than 512 will be adjusted to 512.

A warning is printed to STDERR when attempting to set this attribute to something that isn't a positive integer.

=back

=over 4

=item B<ofs> - field separator for print

$chars = $obj->ofs

$prev = $obj->ofs($chars);

This method is synonymous with C<output_field_separator()>.

=back

=over 4

=item B<open> - connect to port on remote host

$ok = $obj->open($host);

$ok = $obj->open([Host => $host,]
[Port => $port,]
[Errmode => $mode,]
[Timeout => $secs,]);

This method opens a TCP connection to $port> on $host>. If either argument is missing then the current value of C<host()> or C<port()> is used. Optional named parameters are provided to override the current setting of errmode and timeout.

On success C<1> is returned. On time-out or other connection failures, the error mode action is performed. See C<errmode()>.

Time-outs don't work for this method on machines that don't implement SIGALRM - most notably MS-Windows machines. For those machines, an error is returned when the system reaches its own time-out while trying to connect.
A side effect of this method is to reset the alarm interval associated with SIGALRM.

=back

=over 4

=item B<option_accept> - indicate willingness to accept a TELNET option

```
$fh = $obj->option_accept([Do => $telopt,]
    [Dont => $telopt,]
    [Will => $telopt,]
    [Wont => $telopt,]);
```

This method is used to indicate whether to accept or reject an offer to enable a TELNET option made by the remote side. If you're using I<Do> or I<Will> to indicate a willingness to enable, then a notification callback must have already been defined by a prior call to C<option_callback()> . See C<option_callback()> for details on receiving enable/disable notification of a TELNET option.

You can give multiple I<Do>, I<Dont>, I<Will>, or I<Wont> arguments for different TELNET options in the same call to this method.

The following example describes the meaning of the named parameters. A TELNET option, such as C<TELOPT_ECHO> used below, is an integer constant that you can import from Net::Telnet. See the source in file Telnet.pm for the complete list.

=over 4

=item

I<Do> => C<TELOPT_ECHO>

=over 4

=item

we'll accept an offer to enable the echo option on the local side

=back

=item

I<Dont> => C<TELOPT_ECHO>
we'll reject an offer to enable the echo option on the local side

I<Will> => C<TELOPT_ECHO>

we'll accept an offer to enable the echo option on the remote side

I<Won't> => C<TELOPT_ECHO>

we'll reject an offer to enable the echo option on the remote side

Use C<option_send()> to send a request to the remote side to enable or disable a particular TELNET option.

$coderef = $obj->option_callback;
$prev = $obj->option_callback($coderef);

This method defines the callback subroutine that's called when a
TELNET option is enabled or disabled. Once defined, the
I<option_callback> may not be undefined. However, calling this method
with a different I<$coderef> changes it.

A warning is printed to STDERR when attempting to set this attribute
to something that isn't a coderef.

Here are the circumstances that invoke I<$coderef>:

=over 4
=item
An option becomes enabled because the remote side requested an enable
and C<option_accept()> had been used to arrange that it be accepted.

=item
The remote side arbitrarily decides to disable an option that is
currently enabled. Note that Net::Telnet always accepts a request to
disable from the remote side.

=item
C<option_send()> was used to send a request to enable or disable an
option and the response from the remote side has just been received.
Note, that if a request to enable is rejected then I<$coderef> is
still invoked even though the option didn't change.

=back
=item
Here are the arguments passed to I<&$coderef>:

   &$coderef($obj, $option, $is_remote,
       $is_enabled, $was_enabled, $buf_position);

=over 4
=item
1. I<$obj> is the Net::Telnet object
2. \$option\ is the TELNET option. Net::Telnet exports constants for the various TELNET options which just equate to an integer.

3. \$is_remote\ is a boolean indicating for which side the option applies.

4. \$is_enabled\ is a boolean indicating the option is enabled or disabled

5. \$was_enabled\ is a boolean indicating the option was previously enabled or disabled

6. \$buf_position\ is an integer indicating the position in the object's input buffer where the option takes effect. See C<buffer()> to access the object's input buffer.

---

B<option_log> - log all TELNET options sent or received

\$fh = $obj->option_log;

\$fh = $obj->option_log($fh);

\$fh = $obj->option_log($filename);

This method starts or stops logging of all TELNET options being sent or received. This is useful for debugging when you send options via C<option_send()> or you arrange to accept option requests from the remote side via C<option_accept()> or C<dump_log()>.

If no argument is given, the log filehandle is returned. An empty string indicates logging is off.
To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned. Otherwise, the argument is assumed to be the name of a file, the file is opened for logging and a filehandle to it is returned. If the file can't be opened for writing, the error mode action is performed.

=item B<option_send> - send TELNET option negotiation request

```perl
$ok = $obj->option_send([Do => $telopt,]
    [Dont => $telopt,]
    [Will => $telopt,]
    [Wont => $telopt,]
    [Async => $boolean,]);
```

This method is not yet implemented. Look for it in a future version.

=item B<option_state> - get current state of a TELNET option

```perl
$hashref = $obj->option_state($telopt);
```

This method returns a hashref containing a copy of the current state of TELNET option I<$telopt>.

Here are the values returned in the hash:

=item

I<$hashref>->{remote_enabled}

boolean that indicates if the option is enabled on the remote side.
I<$hashref>->{remote_enable_ok}

boolean that indicates if it's ok to accept an offer to enable this option on the remote side.

I<$hashref>->{remote_state}

string used to hold the internal state of option negotiation for this option on the remote side.

I<$hashref>->{local_enabled}

boolean that indicates if the option is enabled on the local side.
boolean that indicates if it's ok to accept an offer to enable this option on the local side.

=back
==item

I<$hashref>-}{local_state}

=over 4
==item

string used to hold the internal state of option negotiation for this option on the local side.

=back
=back
=back
=back

=over 4
=item B<ors> - output line delimiter

$chars = $obj->ors;

$prev = $obj->ors($chars);

This method is synonymous with C<output_record_separator()>.

=back

=over 4
=item B<output_field_separator> - field separator for print

$chars = $obj->output_field_separator;

$prev = $obj->output_field_separator($chars);

This method designates the output field separator for C<print()>.
Ordinarily the print method simply prints out the comma separated fields you specify. Set this to specify what's printed between
fields.

With no argument this method returns the current output field separator set in the object. With an argument it sets the output field separator to $\text{\textless}<$chars$>$ and returns the previous value.

By default it's set to an empty string.

=back

=over 4

=item B<output_log> - log all output

$fh = $obj->output_log;

$fh = $obj->output_log($fh);

$fh = $obj->output_log($filename);

This method starts or stops logging of output. This is useful when debugging. Also see C<dump_log()> . Because most command interpreters echo back commands received, it's likely all your output would also be in an input log. See C<input_log()> . Note that output logging occurs before newline translation. See C<binmode()> for details on newline translation.

If no argument is given, the log filehandle is returned. An empty string indicates logging is off.

To stop logging, use an empty string as an argument.

If an open filehandle is given, it is used for logging and returned. Otherwise, the argument is assumed to be the name of a file, the file is opened for logging and a filehandle to it is returned. If the file can't be opened for writing, the error mode action is performed.

=back

=over 4

=item B<output_record_separator> - output line delimiter

$chars = $obj->output_record_separator;

$prev = $obj->output_record_separator($chars);
This method designates the output line delimiter for `C<print()>` and `C<cmd()>`. Set this to specify what's printed at the end of `C<print()>` and `C<cmd()>`.

The output record separator is set to `C<"\n">` by default, so there's no need to append all your commands with a newline. To avoid printing the output_record_separator use `C<put()>` or set the output_record_separator to an empty string.

With no argument this method returns the current output record separator set in the object. With an argument it sets the output record separator to `I<$chars>` and returns the previous value.

=back

=over 4
=item B<port> - remote port

$port = $obj->port;

$prev = $obj->port($port);

This method designates the remote TCP port. With no argument this method returns the current port number. With an argument it sets the current port number to `I<$port>` and returns the previous port. If `I<$port>` is a TCP service name, then it's first converted to a port number using the perl function `C<getservbyname()>`.

The default value is `C<23>`. It may also be set by `C<open()>` or `C<new()>`.

A warning is printed to STDERR when attempting to set this attribute to something that's not a positive integer or a valid TCP service name.

=back

=over 4
=item B<print> - write to object

$ok = $obj->print(@list);

This method writes `I<@list>` followed by the `I<output_record_separator>`
to the open object and returns C<1> if all data was successfully written. On time-out or other failures, the error mode action is performed. See C<errmode()>.

By default, the C<output_record_separator()> is set to C<"\n"> so all your commands automatically end with a newline. In most cases your output is being read by a command interpreter which won't accept a command until newline is read. This is similar to someone typing a command and hitting the return key. To avoid printing a trailing C<"\n"> use C<put()> instead or set the output_record_separator to an empty string.

On failure, it's possible that some data was written. If you choose to try and recover from a print timing-out, use C<print_length()> to determine how much was written before the error occurred.

You may also use the output field separator to print a string between the list elements. See C<output_field_separator()>.

=back

=over 4

=item B<print_length> - number of bytes written by print

    $num = $obj->print_length;

This returns the number of bytes successfully written by the most recent C<print()> or C<put()>.

=back

=over 4

=item B<prompt> - pattern to match a prompt

    $matchop = $obj->prompt;

    $prev = $obj->prompt($matchop);

This method sets the pattern used to find a prompt in the input stream. It must be a string representing a valid perl pattern match operator. The methods C<login()> and C<cmd()> try to read until matching the prompt. They will fail with a time-out error if the pattern you've chosen doesn't match what the remote side sends.
With no argument this method returns the prompt set in the object. With an argument it sets the prompt to I<$matchop$> and returns the previous value.

The default prompt is C\'<\$/[$%#E$\gt$] $/>\n
Always use single quotes, instead of double quotes, to construct I<$matchop$> (e.g. C\'/bash$/'). If you're constructing a DOS like file path, you'll need to use four backslashes to represent one (e.g. C\'/c:\\users\\billE\gt$/i\'>).

Of course don't forget about regexp metacharacters like C<\>, C<\{>, or C<\$>. You'll only need a single backslash to quote them. The anchor metacharacters C<^> and C<$> refer to positions in the input buffer.

A warning is printed to STDERR when attempting to set this attribute with a match operator missing its opening delimiter.

=back

=over 4

=item B<put> - write to object

$ok = $obj->put($string);

$ok = $obj->put(String => $string,
                [Binmode => $mode,]
                [Errmode => $errmode,]
                [Telnetmode => $mode,]
                [Timeout => $secs,]);

This method writes I<$string$> to the opened object and returns C<1> if all data was successfully written. This method is like C<print()> except that it doesn't write the trailing output_record_separator ("\n" by default). On time-out or other failures, the error mode action is performed. See C<errmode>().

On failure, it's possible that some data was written. If you choose to try and recover from a put timing-out, use C<print_length()> to determine how much was written before the error occurred.

Optional named parameters are provided to override the current settings of binmode, errmode, telnetmode, and timeout.

=back
=over 4

=item B<rs> - input line delimiter

$chars = $obj->rs;

$prev = $obj->rs($chars);

This method is synonymous with C<input_record_separator()>.

=back

=over 4

=item B<telnetmode> - turn off/on telnet command interpretation

$mode = $obj->telnetmode;

$prev = $obj->telnetmode($mode);

This method controls whether or not TELNET commands in the data stream are recognized and handled. The TELNET protocol uses certain character sequences sent in the data stream to control the session. If the port you're connecting to isn't using the TELNET protocol, then you should turn this mode off. The default is I<on>.

If no argument is given, the current mode is returned.

If I<$mode> is C<0> then telnet mode is off. If I<$mode> is C<1> then telnet mode is on.

=back

=over 4

=item B<timed_out> - time-out indicator

$boolean = $obj->timed_out;

$prev = $obj->timed_out($boolean);

This method indicates if a previous read, write, or open method timed-out. Remember that timing-out is itself an error. To be able to invoke C<timed_out()> after a time-out error, you'd have to change the default error mode to something other than C<"die">. See
C<errmode()>.

With no argument this method returns C<1> if the previous method timed-out. With an argument it sets the indicator. Normally, only internal methods set this indicator.

=back

=over 4

=item B<timeout> - I/O time-out interval

$secs = $obj->timeout;

$prev = $obj->timeout($secs);

This method sets the timeout interval that's used when performing I/O or connecting to a port. When a method doesn't complete within the timeout interval then it's an error and the error mode action is performed.

A timeout may be expressed as a relative or absolute value. If $i<secs> is greater than or equal to the time the program started, as determined by $^T, then it's an absolute time value for when time-out occurs. The perl function C<time()> may be used to obtain an absolute time value. For a relative time-out value less than $^T, time-out happens $i<secs> from when the method begins.

If $i<secs> is C<0> then time-out occurs if the data cannot be immediately read or written. Use the undefined value to turn off time-out completely.

With no argument this method returns the timeout set in the object. With an argument it sets the timeout to $i<secs> and returns the previous value. The default timeout value is C<10> seconds.

A warning is printed to STDERR when attempting to set this attribute to something that's not an C<undef> or a non-negative integer.

=back

=over 4

=item B<waitfor> - wait for pattern in the input

$ok = $obj->waitfor($matchop);
$ok = $obj->waitfor([Match => $matchop,]
    [String => $string,]
    [Binmode => $mode,]
    [Errmode => $errmode,]
    [Telnetmode => $mode,]
    [Timeout => $secs,]);

($prematch, $match) = $obj->waitfor($matchop);
($prematch, $match) = $obj->waitfor([Match => $matchop,]
    [String => $string,]
    [Binmode => $mode,]
    [Errmode => $errmode,]
    [Telnetmode => $mode,]
    [Timeout => $secs,]);

This method reads until a pattern match or string is found in the input stream. All the characters before and including the match are removed from the input stream.

In a list context the characters before the match and the matched characters are returned in I<$prematch> and I<$match>. In a scalar context, the matched characters and all characters before it are discarded and C<1> is returned on success. On time-out, eof, or other failures, for both list and scalar context, the error mode action is performed. See C<errmode()>.

You can specify more than one pattern or string by simply providing multiple I<Match> and/or I<String> named parameters. A I<$matchop> must be a string representing a valid Perl pattern match operator. The I<$string> is just a substring to find in the input stream.

Use C<dump_log()> to debug when this method keeps timing-out and you don't think it should.

An optional named parameter is provided to override the current setting of timeout.

To avoid unexpected backslash interpretation, always use single quotes instead of double quotes to construct a match operator argument for C<prompt()> and C<waitfor()> (e.g. C<\bash$/>). If you're constructing a DOS like file path, you'll need to use four backslashes to represent one (e.g. C<\users\billE<gt>$i/>).

Of course don't forget about regexp metacharacters like C<.>, C<[^]>, or C<$>. You'll only need a single backslash to quote them. The anchor metacharacters C<^> and C<$> refer to positions in the input buffer.

Optional named parameters are provided to override the current
settings of binmode, errmode, telnetmode, and timeout.

=head1 SEE ALSO

=over 2

=item RFC 854

S<TELNET Protocol Specification>


=item RFC 1143

S<Q Method of Implementing TELNET Option Negotiation>


=item TELNET Option Assignments

S<http://www.iana.org/assignments/telnet-options>

=back

=head1 EXAMPLES

This example gets the current weather forecast for Brainerd, Minnesota.

my ($forecast, $t);

use Net::Telnet ();
$t = new Net::Telnet;
$t->open("rainmaker.wunderground.com");

## Wait for first prompt and "hit return".
$t->waitfor('/continue:.*$/');
$t->print('');

## Wait for second prompt and respond with city code.
$t->waitfor('/city code.*$/');
$t->print("BRD");

## Read and print the first page of forecast.
($forecast) = $t->waitfor('/\[ \t\]+press return to continue/i');
print $forecast;
exit;

This example checks a POP server to see if you have mail.
my ($hostname, $line, $passwd, $pop, $username);
$hostname = "your_destination_host_here";
$username = "your_username_here";
$passwd = "your_password_here";
use Net::Telnet ();
$pop = new Net::Telnet (Telnetmode => 0);
$pop->open(Host => $hostname,
Port => 110);

## Read connection message.
$line = $pop->getline;
die $line unless $line =~ /^\+OK/;
## Send user name.
$pop->print("user $username");
$line = $pop->getline;
die $line unless $line =~ /^\+OK/;
## Send password.
$pop->print("pass $passwd");
$line = $pop->getline;
die $line unless $line =~ /^\+OK/;
## Request status of messages.
$pop->print("list");
$line = $pop->getline;
print $line;
exit;

Here's an example that uses the ssh program to connect to a remote
host. Because the ssh program reads and writes to its controlling
terminal, the IO::Pty module is used to create a new pseudo terminal
for use by ssh. A new Net::Telnet object is then created to read and
write to that pseudo terminal. To use the code below, substitute
"changeme" with the actual host, user, password, and command prompt.

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## Main program.
```
my ($pty, $ssh, @lines);
my $host = "changeme";
my $user = "changeme";
my $password = "changeme";
my $prompt = '/changeme:~> $/';

## Start ssh program.
$pty = &spawn("ssh", "-l", $user, $host);  # spawn() defined below

## Create a Net::Telnet object to perform I/O on ssh's tty.
use Net::Telnet;
$ssh = new Net::Telnet (-fhopen => $pty,
    -prompt => $prompt,
    -telnetmode => 0,
    -cmd_remove_mode => 1,
    -output_record_separator => "\n");

## Login to remote host.
$ssh->waitfor(-match => '/password: ?$/i',
    -errmode => "return")
or die "problem connecting to host: ", $ssh->lastline;
$ssh->print($password);
$ssh->waitfor(-match => $ssh->prompt,
    -errmode => "return")
or die "login failed: ", $ssh->lastline;

## Send command, get and print its output.
@lines = $ssh->cmd("who");
print @lines;

exit;
} # end main program
```

sub spawn {
    my (@cmd) = @_:;
    my($pid, $pty, $tty, $tty_fd);

    ## Create a new pseudo terminal.
    use IO::Pty ();
    $pty = new IO::Pty
    or die $!;

    ## Execute the program in another process.
    unless ($pid = fork) {  # child process
        die "problem spawning program: $!\n" unless defined $pid;
    }

    # child process
    # do stuff
    die "child process died: $!\n" unless defined $pid;
}
## Disassociate process from existing controlling terminal.
```
use POSIX ();
POSIX::setsid
  or die "setsid failed: $!";
```

## Associate process with a new controlling terminal.
```
$tty = $pty->slave;
$tty_fd = $tty->fileno;
close $pty;
```

## Make stdio use the new controlling terminal.
```
open STDIN, "<&$tty_fd" or die $!;
open STDOUT, ">&$tty_fd" or die $!;
open STDERR, ">&STDOUT" or die $!;
close $tty;
```

## Execute requested program.
```
exec @cmd
  or die "problem executing $cmd[0]\n";
} # end child process
```
```
$pty;
} # end sub spawn
```

Here's an example that changes a user's login password. Because the passwd program always prompts for passwords on its controlling terminal, the IO::Pty module is used to create a new pseudo terminal for use by passwd. A new Net::Telnet object is then created to read and write to that pseudo terminal. To use the code below, substitute "changeme" with the actual old and new passwords.

```
my ($pty, $passwd);
my $oldpw = "changeme";
my $newpw = "changeme";

## Start passwd program.
$pty = &spawn("passwd"); # spawn() defined above

## Create a Net::Telnet object to perform I/O on passwd's tty.
use Net::Telnet;
$passwd = new Net::Telnet (-fhopen => $pty,
  -timeout => 2,
  -output_record_separator => "\n",
  -telnetmode => 0,
  -cmd_remove_mode => 1);
$passwd->errmode("return");
```
Here's an example you can use to download a file of any type. The file is read from the remote host's standard output using cat. To prevent any output processing, the remote host's standard output is put in raw mode using the Bourne shell. The Bourne shell is used because some shells, notably tcsh, prevent changing tty modes. Upon completion, FTP style statistics are printed to stderr.

```perl
my ($block, $filename, $host, $hostname, $k_per_sec, $line, $num_read, $passwd, $prevblock, $prompt, $size, $size_bsd, $size_sysv, $start_time, $total_time, $username);
$hostname = "your_destination_host_here";
$username = "your_username_here";
$password = "your_password_here";
$filename = "your_download_file_here";

## Connect and login.
use Net::Telnet ();
$host = new Net::Telnet (Timeout => 30,
    Prompt => '/[%#>] $/');
$host->open($hostname);
$host->login($username, $password);

## Make sure prompt won't match anything in send data.
```

```perl
```
$prompt = "_funkyPrompt_";
$host->prompt("/$prompt\$/");
$host->cmd("set prompt = '$prompt'");
## Get size of file.
($line) = $host->cmd("/bin/ls -l $filename");
($size_bsd, $size_sysv) = (split ' ', $line)[3,4];
if ($size_sysv =~ /^\d+$/) {
$size = $size_sysv;
}
elsif ($size_bsd =~ /^\d+$/) {
$size = $size_bsd;
}
else {
die "$filename: no such file on $hostname";
}
## Start sending the file.
binmode STDOUT;
$host->binmode(1);
$host->print("/bin/sh -c 'stty raw; cat $filename'");
$host->getline; # discard echoed back line
## Read file a block at a time.
$num_read = 0;
$prevblock = "";
$start_time = time;
while (($block = $host->get) and ($block !~ /$prompt$/o)) {
if (length $block >= length $prompt) {
print $prevblock;
$num_read += length $prevblock;
$prevblock = $block;
}
else {
$prevblock .= $block;
}
}
$host->close;
## Print last block without trailing prompt.
$prevblock .= $block;
$prevblock =~ s/$prompt$//;
print $prevblock;
$num_read += length $prevblock;
die "error: expected size $size, received size $num_read\n"
unless $num_read == $size;

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## Print totals.

```perl
$total_time = (time - $start_time) || 1;
$k_per_sec = ($size / 1024) / $total_time;
$k_per_sec = sprintf "%3.1f", $k_per_sec;
warn("$num_read bytes received in $total_time seconds ",
    "($k_per_sec Kbytes/s)\n");
exit;
```

=head1 AUTHOR

Jay Rogers <jay@rgrs.com>

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from README

Net::Telnet, version 3.03

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<snip>

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

User documentation in POD format is contained within the module source (i.e. the .pm file). Installing using "make install"
places this documentation in a man page in the perl library under the directory "man/man3".

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   Ty Coon, President of Vice

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6.273 Net::AMQP::RabbitMQ 0.31

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Changed to -mdoc by David A. Holland <dholland@ftp.uk.linux.org>
in order to work better with some NetKit maintenance scripts.

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6.279 Nmap-Parser 1.19
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# It takes in a nmap xml file and stores it into a SQLite database using DBI for searching, storing and better reporting. This is just an example of how an IP network database can be created using Nmap-Parser and automation.
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6.280 Nmap-Parser/nmap2db subpart 1.19

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#  nmap2db.pl
#  Description:
#  It takes in a nmap xml file and stores it into a SQLite database using DBI for
#  searching, storing and better reporting. This is just an example of how an
#  IP network database can be created using Nmap-Parser and automation.
#
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interest in the program 'Gnomovision'
(which makes passes at compilers) written
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from numa.3
6.286 Number-Compare 0.03

6.286.1 Available under license:

from /lib/Number/Compare.pm

=heading AUTHOR

Richard Clamp <richardc@unixbeard.net>

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--- #YAML:1.0
name: Number-Compare
version: 0.03
abstract: ~
author: []
license: unknown
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
build_requires:
  ExtUtils::MakeMaker: 0
requires:
  Test::More: 0
no_index:
  directory:
    - t
    - inc
generated_by: ExtUtils::MakeMaker version 6.57_05
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

6.287 Object-MultiType 0.05
6.287.1 Available under license :
from MultiType.pm

<snip>

=head1 AUTHOR

Graciliano M. P. <gm@virtuasites.com.br>

I will appreciate any type of feedback (include your opinions and/or suggestions). ;-P

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=cut

from README
Perl Objects as Hash, Array and Scalar at the same time.

** See POD for documentation.

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    perl Makefile.PL
    make
deck test
    make install

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#define HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#define HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)((int *)&(w))/* convert union wait to int */
#define WIFEXITED(w)((_W_INT(w)) & 0377)
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)(!(WIFEXITED(w)) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)((_W_INT(w) >> 8) & 0377)
#define WTERMSIG(w)((_W_INT(w) & 0177)
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

6.291 OpenSSL 1.0.2q
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6.293 pam-redhat 0.99.9 :1

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  * pam_tally.c
  *
  */

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  * 5 March 1997
  *
  * Stuff stolen from pam_rootok and pam_listfile
  *
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That's all there is to it!
Pango is a library for layout and rendering of text, with an emphasis on internationalization. Pango can be used anywhere that text layout is needed; however, most of the work on Pango so far has been done using the GTK+ widget toolkit as a test platform. Pango forms the core of text and font handling for GTK+-2.x.

Pango is designed to be modular; the core Pango layout can be used with different font backends. There are three basic backends, with multiple options for rendering with each.

- Client side fonts using the FreeType and fontconfig libraries. Rendering can be with with Cairo or Xft libraries, or directly to an in-memory buffer with no additional libraries.

- Native fonts on Microsoft Windows using Uniscribe if available for complex script handling. Rendering can be done via Cairo or directly using the native Win32 API.

- Native fonts on MacOS X, rendering via Cairo.

The integration of Pango with Cairo (http://cairographics.org) provides a complete solution with high quality text handling and graphics rendering.

Dynamically loaded modules then handle text layout for particular combinations of script and font backend.

As well as the low level layout rendering routines, Pango includes PangoLayout, a high level driver for laying out entire blocks of text, and routines to assist in editing internationalized text.

For more information about Pango, see:
http://www.pango.org/

Dependencies
============

Pango depends on the GLib library; more information about GLib can be found at http://www.gtk.org/.

When using client side fonts, the fontconfig library (http://www.fontconfig.org) to look up fonts. At least version 2.0.9 of the FreeType font handling library (http://www.freetype.org) is also required.

Cairo support depends on the Cairo library (http://cairographics.org). The Cairo backend is the preferred backend to use Pango with and is subject of most of the development in the future. It has the advantage that the same code can be used for display and printing.

We suggest using Pango with Cairo as described above, but you can also do X-specific rendering using the Xft library. The Xft backend uses version 2 of the Xft library to manage client side fonts. Version 2 of Xft is available from http://xlibs.freedesktop.org/release/. You'll need the libXft package, and possibly the libXrender and renderext packages as well. You'll also need fontconfig (see below.)

Installation of Pango on Win32 is possible, but is not documented here. See http://www.gimp.org/~tml/gimp/win32/downloads.html

Notes
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- By default, Pango tries to build itself so that no explicit dependency on Xft or FreeType will be introduced in apps that link to Pango. This is to avoid compatibility problems with changes in the Xft or FreeType API's or ABI's. Specifying --enable-explicit-deps or --enable-static when configuring Pango will defeat this and should be avoided if possible.

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**6.298 Parse-RecDescent 1.962.2**

**6.298.1 Available under license:**

From README

<!--snip-->

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6.299 parted 3.2

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@c Local Variables:
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From: Eric Estabrooks <eric@urbanrage.com>
To: Mez <mez@alum.mit.edu>
Sent: Tuesday, February 24, 2015 1:08 PM
Subject: Re: Passwd-Linux licensing

On 02/24/2015 09:55 AM, Mez wrote:
> Hi Eric,
> 
> I'm contacting you as author of Passwd-Linux to clarify the licensing on
> Passwd-Linux. Can you verify that it is under the perl Artistic License
> used in CPAN? Thanks!

Yes it is. I guess this means I forgot to include a license file in the
Open Source Used In Firepower 6.5

6.301 patch 2.7.6

6.301.1 Available under license:

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The ELF header in Buildroot 2017.02:

```
6.302 pciutils 3.0.1

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<snip>
#
#List of PCI ID's
#
#Maintained by Martin Mares <mj@ucw.cz> and other volunteers from the
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#
#New data are always welcome, especially if accurate. If you have
#anything to contribute, please follow the instructions at the web site
#or send a diff -u against the most recent pci.ids to pci-ids@ucw.cz.
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#
#Daily snapshot on Thu 2008-09-11 01:05:01
#

6.303 pcre 8.42

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PCRE JUST-IN-TIME COMPILATION SUPPORT
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Written by: Zoltan Herczeg
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

6.305 perl-ldap 0.39
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from README...

perl-ldap - A Client interface to LDAP servers

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6.306 pika 0.10.0

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#
#
# ******************************************************************************
# Refer to the XF86Config(4/5) man page for details about the format of
# this file.
# ******************************************************************************
# This XF86Config file is designed for use with the Linux framebuffer console.
# This generic interface should work with nearly all video cards (although
# not every card will support every resolution). To use the Linux framebuffer
# console, you need to enable these kernel options:
# Using 'make menuconfig', in 'console drivers', enable:
#   [*] VGA text console
#   [*] Video mode selection support
#   [*] Support for frame buffer devices (EXPERIMENTAL)
#   [*] VESA VGA graphics console
#   [*] Advanced low level driver options
#   <*> 8 bpp packed pixels support
#   <*> 16 bpp packed pixels support
#   <*> 24 bpp packed pixels support
#   <*> 32 bpp packed pixels support
#   <*> VGA characters/attributes support
#   [*] Select compiled-in fonts
#     [ ] VGA 8x8 font
#     [*] VGA 8x16 font
# If you have a Matrox or ATI Mach64, you might try enabling the options having
# to do with those cards as well. However, if the card is VESA compliant, you
# don't really need to (and it might cause problems, possibly)
#
# Next, if this file is not already named /etc/X11/XF86Config, make a copy
# with that name. This file ships with the name XF86Config-fbdev to avoid
# overwriting an existing config file.
#
# To get the kernel to start in VESA framebuffer mode, you need to pass it
# a vga= init string at boot time. For example, if you use LILO you'll
# probably find a vga=normal string in your /etc/lilo.conf. If you edit that
# to one of the values in this table:
#
# Colours     640x480  800x600  1024x768  1280x1024  1600x1200
# ------------|-------------------|-------------------|-------------------|-------------------|-------------------|
#  256       |  769   |  771   |  773   |  775   |  796
# 32,768     |  784   |  787   |  790   |  793   |  797
# 65,536     |  785   |  788   |  791   |  794   |  798
# 16.8M      |  786   |  789   |  792   |  795   |  799
#
# ...such as this for 1024x768x64k:
# vga = 791
# and then reinstall LILO by running 'lilo' as root, then at the next boot
# Linux should start in a VESA framebuffer console mode.
#
# For more information on how to activate the Linux frame buffer, see
# /usr/src/linux/Documentation/fb/vesafb.txt.
#
# Enjoy! :)}
# -- volkerdi@slackware.com
#

# ******************************************************************************
# Module section -- this section is used to specify
# which dynamically loadable modules to load.
# ******************************************************************************
#
Section "Module"

# This loads the DBE extension module.
Load "dbe"  # Double buffer extension

# This loads the miscellaneous extensions module, and disables
# initialisation of the XFree86-DGA extension within that module.
SubSection "extmod"
  Option "omit xfree86-dga"   # don't initialise the DGA extension
EndSubSection

# This loads the font modules
Load "type1"
Load "freetype"
Load "speedo"

# This loads the GLX module
Load "glx"

EndSection

# ******************************************************************************
# Files section.  This allows default font and rgb paths to be set
# ******************************************************************************

Section "Files"

# The location of the RGB database.  Note, this is the name of the
# file minus the extension (like ".txt" or ".db").  There is normally
# no need to change the default.
RrgbPath"/usr/X11R6/lib/X11/rgb"

# Multiple FontPath entries are allowed (which are concatenated together),
# as well as specifying multiple comma-separated entries in one FontPath
# command (or a combination of both methods)
#
# If you don't have a floating point coprocessor and emacs, Mosaic or other
# programs take long to start up, try moving the Type1 and Speedo directory
# to the end of this list (or comment them out).
#

# ModulePath can be used to set a search path for the X server modules.
# The default path is shown here.
#
#    ModulePath "/usr/X11R6/lib/modules"

EndSection

# **********************************************************************
# Server flags section.
# **********************************************************************

Section "ServerFlags"

# Uncomment this to cause a core dump at the spot where a signal is
# received. This may leave the console in an unusable state, but may
# provide a better stack trace in the core dump to aid in debugging
#
#    Option  "NoTrapSignals"

# Uncomment this to disable the <Ctrl><Alt><Fn> VT switch sequence
# (where n is 1 through 12). This allows clients to receive these key
# events.
#
#    Option  "DontVTSwitch"

# Uncomment this to disable the <Ctrl><Alt><BS> server abort sequence
# This allows clients to receive this key event.
#
#    Option  "DontZap"

# Uncomment this to disable the <Ctrl><Alt><KP_+>/<KP_-> mode switching
# sequences. This allows clients to receive these key events.
#
#    Option  "DontZoom"
# Uncomment this to disable tuning with the xvidtune client. With
# it the client can still run and fetch card and monitor attributes,
# but it will not be allowed to change them. If it tries it will
# receive a protocol error.

# Option "DisableVidModeExtension"

# Uncomment this to enable the use of a non-local xvidtune client.

# Option "AllowNonLocalXvidtune"

# Uncomment this to disable dynamically modifying the input device
# (mouse and keyboard) settings.

# Option "DisableModInDev"

# Uncomment this to enable the use of a non-local client to
# change the keyboard or mouse settings (currently only xset).

# Option "AllowNonLocalModInDev"

# Set the basic blanking screen saver timeout.

# Option "blank time" "10" # 10 minutes

# Set the DPMS timeouts. These are set here because they are global
# rather than screen-specific. These settings alone don't enable DPMS.
# It is enabled per-screen (or per-monitor), and even then only when
# the driver supports it.

# Option "standby time" "20"
# Option "suspend time" "30"
# Option "off time" "60"

# On some platform the server needs to estimate the sizes of PCI
# memory and pio ranges. This is done by assuming that PCI ranges
# don't overlap. Some broken BIOSes tend to set ranges of inactive
# devices wrong. Here one can adjust how aggressive the assumptions
# should be. Default is 0.

# Option "EstimateSizesAggresly" "0"

EndSection

# *******************************************************************************
# Input devices
# *******************************************************************************
# **********************************************************************
# Core keyboard's InputDevice section
# **********************************************************************

Section "InputDevice"

   Identifier "Keyboard1"
   Driver "Keyboard"
# For most OSs the protocol can be omitted (it defaults to "Standard").
# When using XQUEUE (only for SVR3 and SVR4, but not Solaris),
# uncomment the following line.

# Option "Protocol" "Xqueue"

# Set the keyboard auto repeat parameters. Not all platforms implement
# this.

# Option "AutoRepeat" "500 5"

# Specify which keyboard LEDs can be user-controlled (eg, with xset(1)).

# Option "Xleds" "1 2 3"

# To disable the XKEYBOARD extension, uncomment XkbDisable.

# Option "XkbDisable"

# To customise the XKB settings to suit your keyboard, modify the
# lines below (which are the defaults). For example, for a European
# keyboard, you will probably want to use one of:

# Option "XkbModel" "pc102"
# Option "XkbModel" "pc105"
#
# If you have a Microsoft Natural keyboard, you can use:

# Option "XkbModel" "microsoft"
#
# If you have a US "windows" keyboard you will want:

# Option "XkbModel" "pc104"
#
# Then to change the language, change the Layout setting.
# For example, a german layout can be obtained with:

# Option "XkbLayout" "de"
# or:
#
#    Option     "XkbLayout"     "de"
#    Option     "XkbVariant"    "nodeadkeys"
#
# If you'd like to switch the positions of your capslock and
# control keys, use:
#
#    Option     "XkbOptions"    "ctrl:swapcaps"

# These are the default XKB settings for XFree86
#
#    Option     "XkbRules"     "xfree86"
#    Option     "XkbModel"     "pc101"
#    Option     "XkbLayout"     "us"
#    Option     "XkbVariant"    ""
#    Option     "XkbOptions"    ""

EndSection

# **********************************************************************
# Core Pointer's InputDevice section
# **********************************************************************

Section "InputDevice"

# Identifier and driver

    Identifier"Mouse1"
    Driver"mouse"

# On platforms where PnP mouse detection is supported the following
# protocol setting can be used when using a newer PnP mouse:

#    Option     "Protocol"    "Auto"

# The available mouse protocols types that you can set below are:
#    Auto BusMouse GlidePoint GlidePointPS/2 IntelliMouse IMPS/2
#    Logitech Microsoft MMHitTab MMSeries Mouseman MouseManPlusPS/2
#    MouseSystems NetMousePS/2 NetScrollPS/2 OSMouse PS/2 SysMouse
#    ThinkingMouse ThinkingMousePS/2 Xqueue
#    Option "Protocol" "PS/2"

# The mouse device. The device is normally set to /dev/mouse,
# which is usually a symbolic link to the real device.
Option "Device"  "/dev/mouse"

# Option "Device"  "/dev/psaux"
# Option "Device"  "/dev/ttyS0"
# Option "Device"  "/dev/ttyS1"

# When using XQUEUE, comment out the above two lines, and uncomment
# the following line.

# Option "Protocol""Xqueue"

# Baudrate and SampleRate are only for some Logitech mice. In
# almost every case these lines should be omitted.

# Option "BaudRate""9600"
# Option "SampleRate""150"

# Emulate3Buttons is an option for 2-button Microsoft mice
# Emulate3Timeout is the timeout in milliseconds (default is 50ms)

# Option "Emulate3Buttons"
# Option "Emulate3Timeout" "50"

# ChordMiddle is an option for some 3-button Logitech mice

# Option "ChordMiddle"

EndSection

# Some examples of extended input devices

# Section "InputDevice"
# Identifier "spaceball"
# Driver  "magellan"
# Option  "Device"  "/dev/cua0"
# EndSection
#
# Section "InputDevice"
# Identifier "spaceball2"
# Driver  "spaceorb"
# Option  "Device"  "/dev/cua0"
# EndSection
#
# Section "InputDevice"
# Identifier "touchscreen0"
# Driver  "microtouch"
# Option  "Device"  "/dev/ttyS0"
# Option  "MinX"  "1412"
# Option  "MaxX"  "15184"
# Option  "MinY"          "15372"
# Option  "MaxY"          "1230"
# Option  "ScreenNumber"  "0"
# Option  "ReportingMode" "Scaled"
# Option  "ButtonNumber"  "1"
# Option  "SendCoreEvents"
# EndSection

# Section "InputDevice"
#  Identifier "touchscreen1"
#  Driver     "elo2300"
#  Option     "Device"        "/dev/ttyS0"
#  Option     "MinX"          "231"
#  Option     "MaxX"          "3868"
#  Option     "MinY"          "3858"
#  Option     "MaxY"          "272"
#  Option     "ScreenNumber"  "0"
#  Option     "ReportingMode" "Scaled"
#  Option     "ButtonThreshold"       "17"
#  Option     "ButtonNumber"  "1"
#  Option     "SendCoreEvents"
# EndSection

# Monitor section

# Any number of monitor sections may be present

Section "Monitor"

    Identifier "My Monitor"

# HorizSync is in kHz unless units are specified.
# HorizSync may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY. REFER TO YOUR MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

    HorizSync   31.5 - 50.0

# HorizSync30-64   # multisync
# HorizSync31.5, 35.2   # multiple fixed sync frequencies
# HorizSync15-25, 30-50   # multiple ranges of sync frequencies

# VertRefresh is in Hz unless units are specified.
# VertRefresh may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
### NOTE: THE VALUES HERE ARE EXAMPLES ONLY. REFER TO YOUR MONITOR'S
### USER MANUAL FOR THE CORRECT NUMBERS.

VertRefresh 40-90

EndSection

Section "Device"
   Identifier "VESA Framebuffer"
   Driver "fbdev"
   #VideoRam 4096
   # Insert Clocks lines here if appropriate
EndSection

Section "Screen"
   Identifier "Screen 1"
   Device "VESA Framebuffer"
   Monitor "My Monitor"

# You shouldn't need to set a default depth as the server will use
# whatever the framebuffer is set to. If you insist on setting it, make
# sure it matches the setting for your framebuffer.
# DefaultDepth 8

Subsection "Display"
   Depth 8
EndSubsection
Subsection "Display"
   Depth 16
EndSubsection
Subsection "Display"
   Depth 24
EndSubsection
Subsection "Display"
  Depth  32
EndSubsection

EndSection

# **********************************************************************
# ServerLayout sections.
# **********************************************************************

# Any number of ServerLayout sections may be present. Each describes
# the way multiple screens are organised. A specific ServerLayout
# section may be specified from the X server command line with the
# "-layout" option. In the absence of this, the first section is used.
# When now ServerLayout section is present, the first Screen section
# is used alone.

Section "ServerLayout"

  # The Identifier line must be present
  Identifier  "Simple Layout"

  # Each Screen line specifies a Screen section name, and optionally
  # the relative position of other screens. The four names after
  # primary screen name are the screens to the top, bottom, left and right
  # of the primary screen. In this example, screen 2 is located to the
  # right of screen 1.

  Screen "Screen 1"

  # Each InputDevice line specifies an InputDevice section name and
  # optionally some options to specify the way the device is to be
  # used. Those options include "CorePointer", "CoreKeyboard" and
  # "SendCoreEvents".

  InputDevice "Mouse1" "CorePointer"
  InputDevice "Keyboard1" "CoreKeyboard"

EndSection

Taken from installpkg script
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#  ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#

echo "WARNING: pkgtools are unstable with tar > 1.13."
echo " You should provide a \"tar-1.13\" in your \$PATH."
sleep 5
fi

make_install_script() {

}
COUNT=1
LINE="sed -n "$COUNT p" $1"
while [ ! "$LINE" = "" ]; do
    LINKGOESIN="echo "$LINE" | cut -f 1 -d " ""
    LINKGOESIN="dirname $LINKGOESIN"
    LINKNAMEIS="echo "$LINE" | cut -f 1 -d ' '"
    LINKNAMEIS="basename "$LINKNAMEIS""
    LINKPOINTSTO="echo "$LINE" | cut -f 3 -d ' '"
    echo "\( cd $LINKGOESIN ; rm -rf $LINKNAMEIS \)"
    echo "\( cd $LINKGOESIN ; ln -sf $LINKPOINTSTO $LINKNAMEIS \)"
    COUNT='expr $COUNT + 1'
    LINE="sed -n "$COUNT p" $1"
done

usage() {
    cat << EOF
Usage: makepkg package_name.tgz

Makes a Slackware compatible "*.tgz" package containing the contents of the
current and all subdirectories. If symbolic links exist, they will be removed
and an installation script will be made to recreate them later. This script
will be called "install/doinst.sh". You may add any of your own ash-compatible
shell scripts to this file and rebuild the package if you wish.

options:     -l, --linkadd y|n (moves symlinks into doinst.sh: recommended)
               -c, --chown y|n (resets all permissions to root:root 755
               - not generally recommended)

If these options are not set, makepkg will prompt as appropriate.
EOF
}

TMP=/tmp # This can be a hole, but I'm going to be careful about file
# creation in there, so don't panic. :^)

# Parse options
while [ 0 ]; do
    if [ "$1" = "--linkadd" -o "$1" = "-l" ]; then
        if [ "$2" = "y" ]; then
            LINKADD=y
        elif [ "$2" = "n" ]; then
            LINKADD=n
        else
            usage
            exit 2
        fi
    fi

shift 2
elif [ "$1" = "--chown" -o "$1" = "-c" ]; then
    if [ "$2" = "y" ]; then
        CHOWN=y
    elif [ "$2" = "n" ]; then
        CHOWN=n
    else
        usage
        exit 2
    fi
    shift 2
elif [ "$1" = "-h" -o "$1" = "-H" -o "$1" = "--help" -o $# = 0 ]; then
    usage
    exit 0
else
    break
fi
done

echo
echo "Slackware package maker, version 2.0."
PACKAGE_NAME="$1"
TARGET_NAME="'dirname $PACKAGE_NAME'"
PACKAGE_NAME="'basename $PACKAGE_NAME'"
TAR_NAME="'basename $PACKAGE_NAME .tgz'"
echo
echo "Searching for symbolic links:"
# Get rid of possible pre-existing trouble:
INST='mktemp $TMP/makepkg.XXXXXX'
find . -type l -exec ls -l {} \; | while read foo ; do echo $foo ; done | cut -f 9- -d ' ' | cut -b3- | tee $INST
if [ ! 'cat $INST' = "" ]; then
echo
    echo "Making symbolic link creation script:"
    make_install_script $INST | tee doinst.sh
fi
echo
if [ ! "cat $INST" = "" ]; then
if [-r install/doinst.sh ]; then
    echo "Unless your existing installation script already contains the code"
    echo "to create these links, you should append these lines to your existing"
    echo "install script. Now's your chance. :^)
    echo
    echo "Would you like to add this stuff to the existing install script and"
    echo -n "remove the symbolic links ([y]es, [n]o)? "
else
    echo "It is recommended that you make these lines your new installation script."
    echo
    echo "Would you like to make this stuff the install script for this package"
echo -n "and remove the symbolic links ([y]es, [n]o)? 
fi
if [ ! "$LINKADD" ]; then
    read LINKADD;
echo
else
    echo $LINKADD
    echo
fi
if [ "$LINKADD" = "y" ]; then
    if [ -r install/doinst.sh ]; then
        UPDATE="t"
cat doinst.sh >> install/doinst.sh
    else
        mkdir install
cat doinst.sh > install/doinst.sh
    fi
    echo "Removing symbolic links:"
    find . -type l -exec rm -v {} \;
echo
    if [ "$UPDATE" = "t" ]; then
        echo "Upgrading your ./install/doinst.sh..."
        else
        echo "Creating your new ./install/doinst.sh..."
fi
else
    echo "No symbolic links were found, so we won't make an installation script."
    echo "You can make your own later in ./install/doinst.sh and rebuild the package if you like."
fi
rm -f doinst.sh $INST
echo
    echo "This next step is optional - you can set the directories in your package"
echo "to some sane permissions. If any of the directories in your package have special permissions, then DO NOT reset them here!"
echo
    echo "Would you like to reset all directory permissions to 755 (drwxr-xr-x) and directory ownerships to root.root ([y]es, [n]o)? 
if [ ! "$CHOWN" ]; then
    read CHOWN;
    echo
else
    echo "$CHOWN"
echo
fi
if [ "$CHOWN" = "y" ]; then

find . -type d -exec chmod -v 755 {} \
find . -type d -exec chown -v root.root {} \
fi
echo
echo "Creating tar file $STAR_NAME.tar..."

STAR cvf $STAR_NAME.tar 
# Warn of zero-length files:
find . -type f -size 0c | while read file ; do
echo "WARNING: zero length file $file"
done
find . -type f -name '*.gz' -size 20c | while read file ; do
echo "WARNING: possible empty gzipped file $file"
done
echo
echo "Gzipping $STAR_NAME.tar..."
gzip -9 $STAR_NAME.tar
echo
echo "Renaming $STAR_NAME.tar.gz to $PACKAGE_NAME..."
mv $STAR_NAME.tar.gz $PACKAGE_NAME
if [ ! "$TARGET_NAME" = "." ]; then
echo
echo "Moving $PACKAGE_NAME to $TARGET_NAME..."

mv $PACKAGE_NAME $TARGET_NAME
fi
echo
echo "Package creation complete."

#!/bin/sh
#
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#

# Wed, 27 Apr 1994 00:06:50 -0700 (PDT)
# Optimization by David Hinds.

SOURCE_DIR=/var/log/mount
ASK="tagfiles"
if [ -L /bin/chmod -a -L /bin/chown ]; then # probably on the bootdisk using busybox
TARGET_DIR=/mnt
TMP=/mnt/var/log/setup/tmp
if mount | grep "on /mnt" 1> /dev/null 2>&1 ; then # good
true
else # bad
echo
echo "You can't run pkgtool from the rootdisk until you've mounted your Linux"
echo "partitions beneath /mnt. Here are some examples of this;"
echo
echo "If your root partition is /dev/hda1, and is using ext2fs, you would type;"
echo "mount /dev/hda1 /mnt -t ext2"
else
echo "Then, supposing your /usr partition is /dev/hda2, you must do this;"
echo "mount /dev/hda2 /mnt/usr -t ext2"
else
echo "Please mount your Linux partitions and then run pkgtool again."
echo
exit
fi
else
TARGET_DIR=/
TMP=/var/log/setup/tmp
fi
if [ ! -d $TMP ]; then
mkdir -p $TMP
chmod 700 $TMP
fi
ADM_DIR=$TARGET_DIR/var/log
LOG=$TMP/PKGTOOL.REMOVED
# remove whitespace

crunch() {
    while read FOO ; do
        echo $FOO
    done
}
package_name() {
    STRING='basename $1 .tgz'
    # Check for old style package name with one segment:
    if [ "echo $STRING | cut -f 1 -d -" = "echo $STRING | cut -f 2 -d -" ]; then
        echo $STRING
    else # has more than one dash delimited segment
        # Count number of segments:
        INDEX=1
        while [ ! "echo $STRING | cut -f $INDEX -d -" = "" ]; do
            INDEX='expr $INDEX + 1'
        done
        INDEX='expr $INDEX - 1' # don't include the null value
        # If we don't have four segments, return the old-style (or out of spec) package name:
        if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
            echo $STRING
        else # we have four or more segments, so we'll consider this a new-style name:
            NAME='expr $INDEX - 3'
            NAME='echo $STRING | cut -f 1-$NAME -d -'
            echo $NAME
            # cruft for later ;)
        fi
        fi
    }
}

remove_packages() {
    for pkg_name in $*
    do
        if [ -r $ADM_DIR/packages/$pkg_name ]; then
            dialog --title "PACKAGE REMOVAL IN PROGRESS" --cr-wrap --infobox "Removing package $pkg_name.
Since each file must be checked against the contents of every other installed package to avoid wiping out areas of overlap, this process can take quite some time. If you'd like to watch the progress, flip over to another virtual console and type:
tail -f $TMP/PKGTOOL.REMOVED"
        export ROOT=$TARGET_DIR
        removepkg $pkg_name >> $LOG 2> /dev/null
        else
            echo "No such package: $pkg_name. Can't remove." >> $LOG
        fi
    }
done

# Here, we read the list of arguments passed to the pkgtool script.
if [ $# -gt 0 ]; then # there are arguments to the command
while [ $# -gt 0 ]; do
  case "$1" in
    "-sets")
      DISK_SETS='echo $2 | tr "[A-Z]" "[a-z]"' ; shift 2 ;;
    
    "-source Mounted")
      SOURCE_MOUNTED="always" ; shift 1 ;;
    
    "-ignore_tagfiles")
      ASK="never" ; shift 1 ;;
    
    "-tagfile")
      USETAG=$2 ; shift 2 ;;
    
    "-source_dir")
      SOURCE_DIR=$2 ; shift 2 ;;
      
      ADM_DIR=$TARGET_DIR/var/log
    shift 2 ;;
    
    "-source_device")
      SOURCE_DEVICE=$2 ; shift 2 ;;
      esac
  done
else  # there were no arguments, so we'll get the needed information from the
  # user and then go on.
  CMD_START="true"
  rm -f $TMP/SeT*
  while [ 0 ]; do
    dialog --title "Slackware Package Tool (pkgtool version 9.0.0)" \
      --menu "\nWelcome to the Slackware package tool.\n\nWhich option would you like?\n" 17 75 7 \
  "Current" "Install packages from the current directory" \
  "Other" "Install packages from some other directory" \
  "Floppy" "Install packages from floppy disks" \
  "Remove" "Remove packages that are currently installed" \
  "View" "View the list of files contained in a package" \
  "Setup" "Choose Slackware installation scripts to run again" \
  "Exit" "Exit Pkgtool" 2> $TMP/reply
    if [ ! $? = 0 ]; then
      rm -f $TMP/reply
      dialog --clear
      exit
      fi
    REPLY="cat $TMP/reply"
    rm -f $TMP/reply
    if [ "$REPLY" = "Exit" ]; then
      done
    fi
  done
  fi
fi
dialog --clear
exit
fi
if [ "SREPLY" = "Setup" ]; then
echo 'dialog --title "SELECT SYSTEM SETUP SCRIPTS" --item-help --checklist 
"Please use the spacebar to select the setup scripts to run. Hit enter when you 
are done selecting to run the scripts." 17 70 9 \ > $TMP/setupscr
for script in $ADM_DIR/setup/setup.* ; do
  BLURB='grep '#BLURB' $script | cut -b8-' if [ "$BLURB" = "" ]; then
  BLURB=""
  fi
  echo " basename $script | cut -f2- -d . \" $BLURB \" no\" $BLURB \" 2> $TMP/return" >> $TMP/setupscr
done
echo "2> $TMP/return" >> $TMP/setupscr
. $TMP/setupscr
if [ ! "cat $TMP/return" = "" ]; then
  # Run each script:
  for script in 'cat $TMP/return' ; do
    scrpath=$ADM_DIR/setup/setup.'"$script | tr -d "'
    rootdevice="mount | head -1 | cut -f 1 -d '""
    ( COLOR=on ; cd $TARGET_DIR ; . $scrpath / $rootdevice )
  done
  fi # end Setup
fi # end Setup
if [ "SREPLY" = "View" ]; then
  DEFITEM=""
  export DEFITEM
dialog --title "SCANNING" --infobox "Please wait while 
Pkgttool scans your system to determine which packages you have \ninstalled and prepares a list for you." 0 0
echo 'dialog $DEFITEM --item-help --menu "Please select the package you wish to view." 17 68 10 \ > $TMP/viewscr
for name in 'ls $ADM_DIR/packages' ; do
  pkg_name='package_name $name'
  BLURB='"sed -n "/$pkg_name:/{s/"//g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"'
  # Let's have some backward compatibility with the interim beta (for now):
  if [ "$BLURB" = "" ]; then
    BLURB='"sed -n "/$name:/{s/"//g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"
    fi
  echo "$name" "$BLURB" "View information about package $name" \" >> $TMP/viewscr
done
echo "2> $TMP/return" >> $TMP/viewscr
while [ 0 ]; do
  . $TMP/viewscr
  if [ ! "cat $TMP/return" = "" ]; then

DEFITEM="--default-item 'cat $TMP/return'"

dialog --title "CONTENTS OF PACKAGE: 'cat $TMP/return'" --no-shadow --textbox "$ADM_DIR/packages/cat $TMP/return" \ 
0 0 2> /dev/null
else
break
fi
done
rm -f $TMP/return $TMP/viewscr $TMP/tmpmsg

# This will clean up after most defective packages:
chmod 755 /
chmod 1777 /tmp
continue
fi
if [ "$SREPLY" = "Remove" ]; then
dialog --title "SCANNING" --infobox "Please wait while Pkgtool scans your system to determine which packages you have installed and prepares a list for you." 0 0
# end section
cat << EOF > $TMP/rmscript
dialog --title "SELECT PACKAGES TO REMOVE" --item-help --checklist "Please select the packages you wish to Remove. Use the spacebar to select packages to delete, and the UP/DOWN arrow keys to scroll up and down through the entire list." 20 75 11 \ 
EOF
for name in 'ls $ADM_DIR/packages' ; do
pkg_name='package_name $name'
BLURB='"sed -n "/$pkg_name:/{s/"/"/g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"'
# Let's have some backward compatibility with the interim beta (for now):
if [ "$BLURB" = "" ]; then
BLURB='"sed -n "/$name:/{s/"/"/g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"'
fi
echo " "$name" "$BLURB" off "Select/Unselect removing package $name" \" >> $TMP/rmscript
done
echo "2> $TMP/return" >> $TMP/rmscript
if [ -L $LOG -o -r $LOG ]; then
rm -f $LOG
done
cat /dev/null > $LOG
chmod 600 $LOG
chmod 700 $TMP/rmscript
export ADM_DIR;
$TMP/rmscript
remove_packages 'cat $TMP/return | tr -d "\042"'
if [ "$cat $TMP/PKGTOOL.REMOVED" = "" ]; then
rm -f $TMP/PKGTOOL.REMOVED
dialog --title "NO PACKAGES REMOVED" --msgbox "Hit OK to return"
dialog --title "PACKAGE REMOVAL COMPLETE" --msgbox "The packages have been removed. A complete log of the files that were removed has been created in $TMP: PKGTOOL.REMOVED." 0 0
fi
rm -f $TMP/rmscript $TMP/return $TMP/tmpmsg $TMP/SeT*
chmod 755 /
chmod 1777 /tmp
# No, return to the main menu:
#   exit
elif [ "$REPLY" = "Floppy" ]; then
dialog --title "SELECT FLOPPY DRIVE" --menu "Which floppy drive would you like to install from?" 11 70 4
"/dev/fd0u1440" "1.44 MB first floppy drive"
"/dev/fd1u1440" "1.44 MB second floppy drive"
"/dev/fd0h1200" "1.2 MB first floppy drive"
"/dev/fd1h1200" "1.2 MB second floppy drive" 2> $TMP/wdrive
if [ $? = 1 ]; then
dialog --clear
exit
fi
SOURCE_DEVICE="cat $TMP/wdrive"
rm -f $TMP/wdrive
cat << EOF > $TMP/tmpmsg
Enter the names of any disk sets you would like to install.
Separate the sets with a space, like this: a b oi x
To install packages from one disk, hit [enter] without typing anything.
EOF
dialog --title "SOFTWARE SELECTION" --inputbox "cat $TMP/tmpmsg" 13 70 2> $TMP/sets
DISK_SETS="cat $TMP/sets"
rm -f $TMP/sets
if [ "$DISK_SETS" = "" ]; then
DISK_SETS="disk"
else
DISK_SETS=`echo $DISK_SETS | sed 's/ /#/g'`
DISK_SETS=#$DISK_SETS
fi
break;
elif [ "$REPLY" = "Other" ]; then
dialog --title "SELECT SOURCE DIRECTORY" --inputbox "Please enter the name of the directory that you wish to install packages from:"

if [ $? = 1 ]; then
    rm -f $TMP/pkgdir $TMP/SeT*
    dialog --clear
    exit
fi

SOURCE_DIR="cat $TMP/pkgdir"
SOURCE_MOUNTED="always"
DISK_SETS="disk"
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
rm -f $TMP/pkgdir
if [ ! -d $SOURCE_DIR ]; then
    dialog --title "DIRECTORY NOT FOUND" --msgbox "The directory you want to install from ($SOURCE_DIR) does not seem to exist. Please check the directory and then try again."
    10 50
    dialog --clear
    exit
fi
break;
else # installing from current directory
SOURCE_MOUNTED="always"
SOURCE_DIR="$PWD"
DISK_SETS="disk"
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
break;
fi
done
fi
if [ "$DISK_SETS" = "disk" ]; then
    ASK="always"
fi

mount_the_source() {
    # is the source supposed to be mounted already?
    if [ "$SOURCE_MOUNTED" = "always" ]; then
        # The source should already be mounted, so we test it
        if [ ! -d $SOURCE_DIR ]; then # the directory is missing
            cat << EOF > $TMP/tmpmsg
            Your source device cannot be accessed properly.
            Please be sure that it is mounted on $SOURCE_DIR, and that the Slackware disks are found in subdirectories of $SOURCE_DIR like specified.
            EOF
        fi
    fi
}

# is the source supposed to be mounted already?
if [ "$SOURCE_MOUNTED" = "always" ]; then
    # The source should already be mounted, so we test it
    if [ ! -d $SOURCE_DIR ]; then # the directory is missing
        cat << EOF > $TMP/tmpmsg
        Your source device cannot be accessed properly.
        Please be sure that it is mounted on $SOURCE_DIR, and that the Slackware disks are found in subdirectories of $SOURCE_DIR like specified.
        EOF
    fi
}
dialog --title "MOUNT ERROR" --msgbox "cat $TMP/tmpmsg" 11 67
rm -f $TMP/tmpmsg
exit 1;
fi
return 0;
fi
dialog --title "INSERT DISK" --menu "Please insert disk $1 and \npress ENTER to continue."
11 50 3
"Continue" "Continue with the installation" 
"Skip" "Skip the current disk series" 
"Quit" "Abort the installation process" 2> $TMP/reply
if [ ! $? = 0 ]; then
  REPLY="Quit"
else
  REPLY="cat $TMP/reply"
fi
rm -f $TMP/reply
if [ "$REPLY" = "Skip" ]; then
  return 1;
fi
if [ "$REPLY" = "Quit" ]; then
dialog --title "ABORTING" --msgbox "Aborting software installation." 5 50
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
exit 1;
fi;
# Old line:
# mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
# New ones: (thanks to Andy Schwierskott!)
go_on=y
not_successfull_mounted=1
while [ "$go_on" = y -a "$not_successfull_mounted" = 1 ]; do
  mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
  not_successfull_mounted=$?
if [ "$not_successfull_mounted" = 1 ]; then
  mount_answer=x
  while [ "$mount_answer" != "y" -a "$mount_answer" != "q" ]; do
    dialog --title "MOUNT PROBLEM" --menu "Media was not successfully 
mounted! Do you want to 
retry, or quit?" 10 60 2
    "Yes" "Try to mount the disk again"
    "No" "No, abort." 2> $TMP/mntans
    mount_answer="cat $TMP/mntans"
    rm -f $TMP/mntans
  if [ "$mount_answer" = "Yes" ]; then
    mount_answer="y"
  else
    break
  fi
  # Old line:
  # mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
  # New ones: (thanks to Andy Schwierskott!)
go_on=y
  not_successfull_mounted=1
  while [ "$go_on" = y -a "$not_successfull_mounted" = 1 ]; do
    mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
    not_successfull_mounted=$?
  if [ "$not_successfull_mounted" = 1 ]; then
    mount_answer=x
    while [ "$mount_answer" != "y" -a "$mount_answer" != "q" ]; do
      dialog --title "MOUNT PROBLEM" --menu "Media was not successfully 
mounted! Do you want to 
retry, or quit?" 10 60 2
      "Yes" "Try to mount the disk again"
      "No" "No, abort." 2> $TMP/mntans
      mount_answer="cat $TMP/mntans"
      rm -f $TMP/mntans
  if [ "$mount_answer" = "Yes" ]; then
    mount_answer="y"
  else
    break
  fi

# End of file
mount_answer="q"
fi
done
go_on=$mount_answer
fi
done
test $not_successfull_mounted = 0
}

umount_the_source() {
if [ ! "$SOURCE_MOUNTED" = "always" ]; then
  umount $SOURCE_DEVICE 1> /dev/null 2>&1
fi;
}

install_disk() {
  mount_the_source $1
  if [ $? = 1 ]; then
    umount_the_source;
    return 1;
  fi
  CURRENT_DISK_NAME="$1"
  PACKAGE_DIR=$SOURCE_DIR
  if [ "$SOURCE_MOUNTED" = "always" -a ! "$DISK_SETS" = "disk" ]; then
    PACKAGE_DIR=$PACKAGE_DIR/$1
  fi

  # If this directory is missing or contains no *.tgz files, bail.
  if [ ! -d $PACKAGE_DIR ]; then
    return 1
  fi
  if ls $PACKAGE_DIR/*.tgz 1> /dev/null 2> /dev/null ; then
    true
  else
    return 1
  fi

  # look for tagfile for this series and copy into $TMP/tagfile
  #
touch $TMP/tagfile
  if [ ! "$DISK_SETS" = "disk" ]; then
    if [ ! -r $TMP/SeTtagext ]; then
      if [ -r $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' ]; then
        cat $PACKAGE_DIR/tagfile'cat $TMP/SeTtagext' >> $TMP/tagfile
      else
        if [ -r $PACKAGE_DIR/tagfile ]; then
          cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
        else
          cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
```
elif [ -r $TMP/SeTtagpath ]; then
  custom_path='cat $TMP/SeTtagpath'
  short_path='basename $PACKAGE_DIR'

  # If tagfile exists at the specified custom path, copy it over.
  if [ -r $custom_path/$short_path/tagfile ]; then
    cat $custom_path/$short_path/tagfile >> $TMP/tagfile
  else # well, I guess we'll use the default one then.
    if [ -r $PACKAGE_DIR/tagfile ]; then
      cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
    fi
  fi

  # We seem to be testing for this too often... maybe this code should
  # be optimized a little...
  #
  elif [ -r $PACKAGE_DIR/tagfile ]; then
    cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
  fi

  # Execute menus if in QUICK mode:
  #
  if [ -r $TMP/SeTQUICK -a -r $PACKAGE_DIR/maketag ]; then
    if [ ! "$MAKETAG" = "" -a -r $PACKAGE_DIR/$MAKETAG ]; then # use alternate maketag
      sh $PACKAGE_DIR/$MAKETAG
    else
      sh $PACKAGE_DIR/maketag
    fi
  fi

  if [ -r $TMP/SeTnewtag ]; then
    mv $TMP/SeTnewtag $TMP/tagfile
  fi

  # Protect tagfile from hacker attack:
  #
  if [ -r $TMP/tagfile ]; then
    chmod 600 $TMP/tagfile
  fi
fi # ! "$DISK_SETS" = "disk"

# It's possible that the tagfile was specified on the command line. If that's
# the case, then we'll just override whatever we figured out up above.
if [ ! "$USETAG" = "" ]; then
  cat $USETAG > $TMP/tagfile
fi

# If there's a catalog file present, use it to check for missing files.
# If not, forget about that and install whatever's there.
if [ "$1" = "single_disk" -o -r $PACKAGE_DIR/disk$1 -o -r $PACKAGE_DIR/package-list.txt ]; then
  if -r $PACKAGE_DIR/package-list.txt ; then
    CATALOG_FILE=$PACKAGE_DIR/package-list.txt
  else
    CATALOG_FILE='basename $PACKAGE_DIR/disk*';
  fi
  if [ -r $PACKAGE_DIR/SCATALOG_FILE ] ; then
    if grep CONTENTS: $PACKAGE_DIR/SCATALOG_FILE 1> /dev/null 2>&1 ; then
      # First we check for missing packages...
      for PKGT in "grep "^CONTENTS:" $PACKAGE_DIR/SCATALOG_FILE | cut -f2- -d : 2> /dev/null" ; do
        # This is not a perfect test. (say emacs is missing but emacs-nox is not)
        if ls $PACKAGE_DIR/$PKG*.tgz 1> /dev/null 2>/dev/null ; then
          true
        else
          cat << EOF > $TMP/tmpmsg
            WARNING!!!
            While looking through your index file ($CATALOG_FILE),
            I noticed that you might be missing a package:

            $PKG*.tgz

            that is supposed to be on this disk (disk $1). You may go
            on with the installation if you wish, but if this is a
            crucial file I'm making no promises that your machine will
            boot.

            EOF
            dialog --title "FILE MISSING FROM YOUR DISK" --msgbox 
            "cat $TMP/tmpmsg" 17 67
        fi
      done # checking for missing packages
      # Now we test for extra packages:
      ALLOWED="grep CONTENTS: $PACKAGE_DIR/SCATALOG_FILE | cut -b10- 2> /dev/null"
      for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
        BASE='basename $PACKAGE_FILENAME .tgz'
        echo $BASE $ALLOWED
        if [ -f $PACKAGE_DIR/$BASE*.tgz ] ; then
          echo $BASE $ALLOWED
          if grep CONTENTS: $PACKAGE_DIR/SCATALOG_FILE | cut -f2- -d : 2> /dev/null ; then
            true
          else
            cat << EOF > $TMP/tmpmsg
              WARNING!!!
              While looking through your index file ($CATALOG_FILE),
              I noticed that you have an extra package:

              $BASE*.tgz

            that is not supposed to be on this disk (disk $1). You may go
            on with the installation if you wish, but if this is a
            crucial file I'm making no promises that your machine will
            boot.

            EOF
              dialog --title "FILE MISSING FROM YOUR DISK" --msgbox 
              "cat $TMP/tmpmsg" 17 67
            fi
          fi
        fi
      done # checking for extra packages
    fi
  fi
fi
if echo $ALLOWED | grep $BASE 1> /dev/null 2>&1 ; then
  true
else
  cat << EOF > $TMP/tmpmsg
  WARNING!!!
  While looking through your index file ($CATALOG_FILE),
  I noticed that you have this extra package:
  ($BASE.tgz)
  that I don't recognize. Please be sure this package is
  really supposed to be here, and is not left over from an
  old version of Slackware. Sometimes this can happen at the
  archive sites.
  EOF
  dialog --title "EXTRA FILE FOUND ON YOUR DISK"
  --msgbox "cat $TMP/tmpmsg" 17 67
  rm -f $TMP/tmpmsg
fi
fi # check for missing/extra packages

# Install the packages:
for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
  if [ "$PACKAGE_FILENAME" = "$PACKAGE_DIR/*.tgz" ]; then
    continue;
  fi
  if [ "$ASK" = "never" ]; then # install the package
    installpkg -root $TARGET_DIR -infobox -tagfile $TMP/tagfile $PACKAGE_FILENAME
    ERROR=$?
  elif [ "$ASK" = "tagfiles" ]; then
    installpkg -root $TARGET_DIR -menu -tagfile $TMP/tagfile $PACKAGE_FILENAME
    ERROR=$?
  else # ASK should be = always here, and that's how we'll treat it
    installpkg -root $TARGET_DIR -menu -ask -tagfile $TMP/tagfile $PACKAGE_FILENAME
    ERROR=$?
  fi
  # Check for abort:
  if [ "$ERROR" = "99" ]; then
    umount_the_source;
    chmod 755 $TARGET_DIR
    chmod 1777 $TARGET_DIR/tmp
    exit 1;
OUTTAHERE="false"
if [ -r $PACKAGE_DIR/install.end ]; then
  OUTTAHERE="true"
fi
umount_the_source;
if [ "$OUTTAHERE" = "true" ]; then
  return 1;
fi
}

install_disk_set() { # accepts one argument: the series name in lowercase.
  SERIES_NAME=$1
  CURRENT_DISC_NUMBER="1"
  while [ 0 ]; do
    # Don't start numbering the directories until 2:
    if [ $CURRENT_DISC_NUMBER = 1 ]; then
      DISKTOINSTALL=$SERIES_NAME
    else
      DISKTOINSTALL=$SERIES_NAME$CURRENT_DISC_NUMBER
    fi
    install_disk $DISKTOINSTALL
    if [ ! $? = 0 ]; then # install.end was found, or the user chose
      # to quit installing packages.
      return 0;
    fi
    CURRENT_DISC_NUMBER='expr $CURRENT_DISC_NUMBER + 1'
  done;
}

# /* main */
if [ "$DISK_SETS" = "disk" ]; then
  install_disk single_disk;
  ASK="always"
else
  touch $TMP/tagfile
  chmod 600 $TMP/tagfile
  if echo $DISK_SETS | grep "^a#" > /dev/null 2>&1; then
    A_IS_NEEDED="true"
  else
    A_IS_NEEDED="false"
  fi
  while [ 0 ];
    do
      while [ 0 ]; # strip leading '#'s
        do
          if [ "'echo $DISK_SETS | cut -b1'" = "#" ]; then
            
```
DISK_SETS="$DISK_SETS | cut -b2-"
else
break;
fi
done
if [ "$A_IS_NEEDED" = "true" ]; then
cat << EOF > $TMP/tmpmsg
--- Installing package series ==>a<==
EOF
dialog --infobox "cat $TMP/tmpmsg" 5 45
sleep 1
rm -f $TMP/tmpmsg
install_disk_set a;
A_IS_NEEDED="false"
fi
count="1"
if [ "$DISK_SETS | cut -b$count" = "" ]; then
break; # we be done here :^)
else
count="2"
while [ 0 ]; do
if [ "$DISK_SETS | cut -b$count" = "" -o "$DISK_SETS | cut -b$count" = '#' ]; then
count="expr $count - 1"
break;
else
count="expr $count + 1"
fi
done
fi
diskset="$DISK_SETS | cut -b1-$count"
count="expr $count + 1"
EOF
dialog --infobox "cat $TMP/tmpmsg" 5 45
sleep 1
rm -f $TMP/tmpmsg
install_disk_set $diskset;
done
fi

Installing package series ==>$diskset<==
EOF
dialog --infobox "cat $TMP/tmpmsg" 5 45
sleep 1
rm -f $TMP/tmpmsg
install_disk_set $diskset;
done
fi
if [ "SDISK_SETS" = "disk" ]-o "$CMD_START" = "true" ]; then
if [-r $TMP/tagfile ]; then
    rm $TMP/tagfile
fi
dialog --clear
fi
chmod 755 $TARGET_DIR $TARGET_DIR/var $TARGET_DIR/usr
chmod 1777 $TARGET_DIR/tmp
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#
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#
#!/bin/sh
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# MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO
# EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
# SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
```bash
$STAR --help 1> /dev/null 2> /dev/null
if [ ! $? = 0 ]; then
    TAR=tar
fi
if [ ! "$LC_MESSAGES=C $STAR --version" = "tar (GNU tar) 1.13"

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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. 

Written by John Gilmore and Jay Fenlason." ]; then 
    echo "WARNING: pkgtools are unstable with tar > 1.13."
    echo "You should provide a "tar-1.13" in your $PATH."
    sleep 5
fi

if [ $# = 0 ]; then
    cat << EOF
Usage: explodepkg package_name [package_name2, ...]

Explodes a Slackware compatible software package (or any tar+gzip archive) in 
the current directory. Equivalent to (for each package listed):

    ( umask 000 ; tar xzvf package_name )

Note: This should only be used for debugging or examining packages, not for 
installing them. It doesn't execute installation scripts or update the package 
indexes in /var/log/packages|scripts.

EOF
fi
for PKG in $* ; do
    echo "Exploding package $PKG in current directory:"
    ( umask 000 ; $TAR xzvf $PKG 2> /dev/null )
    if [ -r install/doinst.sh ]; then
        echo "An installation script was detected in ./install/doinst.sh, but"
        echo "was not executed."
    fi
done
#!/bin/sh
# Copyright 1994, 1998  Patrick Volkerding, Moorhead, Minnesota USA
# All rights reserved.
#
# Redistribution and use of this script, with or without modification, is
# permitted provided that the following conditions are met:
#
# 1. Redistributions of this script must retain the above copyright
```
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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Written by John Gilmore and Jay Fenlason." ]; then
  echo "WARNING: pkgtools are unstable with tar > 1.13." 
  echo " You should provide a \"tar-1.13\" in your \$PATH." 
  sleep 5
fi

make_install_script() {
  COUNT=1
  LINE="sed -n "$COUNT p "$1""
  while [ ! "$LINE" = "" ]; do
    LINKGOESIN="echo "$LINE" | cut -f 1 -d " ""
    LINKGOESIN="dirname $LINKGOESIN"
    LINKNAMEIS="echo "$LINE" | cut -f 1 -d ' '"
    LINKNAMEIS="basename "$LINKNAMEIS"
    LINKPOINTSTO="echo "$LINE" | cut -f 3 -d ' '"
    echo "( cd $LINKGOESIN ; rm -rf $LINKNAMEIS )"
    echo "( cd $LINKGOESIN ; ln -sf $LINKPOINTSTO $LINKNAMEIS )"
    COUNT='expr $COUNT + 1'
    LINE="sed -n "$COUNT p "$1"
  done
}
usage() {
    cat << EOF
Usage: makepkg package_name.tgz

Makes a Slackware compatible "*.tgz" package containing the contents of the
current and all subdirectories. If symbolic links exist, they will be removed
and an installation script will be made to recreate them later. This script
will be called "install/doinst.sh". You may add any of your own ash-compatible
shell scripts to this file and rebuild the package if you wish.

options:     -l, --linkadd y|n (moves symlinks into doinst.sh: recommended)
               -c, --chown y|n (resets all permissions to root:root 755
                        - not generally recommended)

If these options are not set, makepkg will prompt as appropriate.
EOF
}

TMP=/tmp # This can be a hole, but I'm going to be careful about file
# creation in there, so don't panic. :^)

# Parse options
while [ 0 ]; do
    if [ "$1" = "--linkadd" -o "$1" = "-l" ]; then
        if [ "$2" = "y" ]; then
            LINKADD=y
        elif [ "$2" = "n" ]; then
            LINKADD=n
        else
            usage
            exit 2
        fi
        shift 2
    elif [ "$1" = "--chown" -o "$1" = "-c" ]; then
        if [ "$2" = "y" ]; then
            CHOWN=y
        elif [ "$2" = "n" ]; then
            CHOWN=n
        else
            usage
            exit 2
        fi
        shift 2
    elif [ "$1" = "--help" -o "$1" = "-h" ]; then
        usage
        exit 0
    fi

# Further processing

else
  break
fi
done

echo
echo "Slackware package maker, version 2.0."
PURNAME=$1
TARGET_NAME="$dirname $PURNAME"
PURNAME="$basename $PURNAME"
TAR_NAME="$basename $PURNAME .tgz"

echo
echo "Searching for symbolic links:"
# Get rid of possible pre-existing trouble:
INST="mktemp $TMP/makepkg.XXXXXX"
find . -type l -exec ls -l {} \; | while read foo ; do echo $foo ; done | cut -f 9- -d ' ' | cut -b3- | tee $INST
if [ ! "cat $INST" = "" ]; then
  echo
  echo "Making symbolic link creation script:"
  make_install_script $INST | tee doinst.sh
  fi
  echo
if [ ! "cat $INST" = "" ]; then
  if [ -r install/doinst.sh ]; then
    echo "Unless your existing installation script already contains the code"
    echo "to create these links, you should append these lines to your existing"
    echo "install script. Now's your chance. :^)"
    echo
    echo "Would you like to add this stuff to the existing install script and"
    echo -n "remove the symbolic links ([y]es, [n]o)? ">
    else
    echo "It is recommended that you make these lines your new installation script."
    echo
    echo "Would you like to make this stuff the install script for this package"
    echo -n "and remove the symbolic links ([y]es, [n]o)? ">
    fi
  if [ ! "$LINKADD" ]; then
    read LINKADD;
    read LINKADD;
    echo
  else
    echo $LINKADD
    echo
  fi
if [ "$LINKADD" = "y" ]; then
  if [ -r install/doinst.sh ]; then
    UPDATE="t"
    cat doinst.sh >> install/doinst.sh
  else
mkdir install
cat doinst.sh > install/doinst.sh
fi
echo
echo "Removing symbolic links:"
find . -type l -exec rm -v {} \;
echo
if [ "$UPDATE" = "t" ]; then
  echo "Updating your ./install/doinst.sh..."
else
  echo "Creating your new ./install/doinst.sh..."
fi
fi
else
echo "No symbolic links were found, so we won't make an installation script."
echo "You can make your own later in ./install/doinst.sh and rebuild the"
echo "package if you like."
fi
rm -f doinst.sh $INST
echo
echo "This next step is optional - you can set the directories in your package"
echo "to some sane permissions. If any of the directories in your package have"
echo "special permissions, then DO NOT reset them here!"
echo
echo "Would you like to reset all directory permissions to 755 (drwxr-xr-x) and"
echo -n "directory ownerships to root.root ([y]es, [n]o)? "
if [ ! "$CHOWN" ]; then
  read CHOWN;
else
  echo $CHOWN
else
  echo $CHOWN
  echo
fi
if [ "$CHOWN" = "y" ]; then
  find . -type d -exec chmod -v 755 {} \;
  find . -type d -exec chown -v root.root {} \;
else
  echo "Creating tar file $STAR_NAME.tar..."
echo
$STAR cvf $STAR_NAME.tar .
# Warn of zero-length files:
find . -type f -size 0c | while read file ; do
  echo "WARNING: zero length file $file"
done
find . -type f -name "*.gz" -size 20c | while read file ; do
  echo "WARNING: possible empty gzipped file $file"
done
open

echo "Gzipping $TAR_NAME.tar..."
gzip -9 $TAR_NAME.tar
echo

echo "Renaming $TAR_NAME.tar.gz to $PACKAGE_NAME..."

mv $TAR_NAME.tar.gz $PACKAGE_NAME

if [ ! "$TARGET_NAME" = "." ]; then
echo
    echo "Moving $PACKAGE_NAME to STARGET_NAME..."
    mv $PACKAGE_NAME $TARGET_NAME
fi
echo
echo "Package creation complete."
echo

#!/bin/sh
#
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#
# Wed, 27 Apr 1994 00:06:50 -0700 (PDT)
# Optimization by David Hinds.

SOURCE_DIR=/var/log/mount
ASK="tagfiles"

if [ -L /bin/chmod -a -L /bin/chown ]; then # probably on the bootdisk using busybox
    TARGET_DIR=/mnt
    TMP=/mnt/var/log/setup/tmp
    if mount | grep "on /mnt" 1> /dev/null 2>&1 ; then # good
true
else # bad
echo
echo "You can't run pkgtool from the rootdisk until you've mounted your Linux"
echo "partitions beneath /mnt. Here are some examples of this:"
echo
echo "If your root partition is /dev/hda1, and is using ext2fs, you would type:"
echo "mount /dev/hda1 /mnt -t ext2"
echo
echo "Then, supposing your /usr partition is /dev/hda2, you must do this:"
echo "mount /dev/hda2 /mnt/usr -t ext2"
echo
echo "Please mount your Linux partitions and then run pkgtool again."
fi
exit

if [ ! -d $TMP ]; then
mkdir -p $TMP
chmod 700 $TMP
fi

ADM_DIR=$TARGET_DIR/var/log
LOG=$TMP/PKGTOOL.REMOVED

# remove whitespace
crunch() {
while read FOO ; do
  echo $FOO
done
}

package_name() {
  STRING='basename $1 .tgz'
  # Check for old style package name with one segment:
  if [ "" = "$STRING | cut -f 2 -d -"" ]; then
    echo "$STRING"
  else # has more than one dash delimited segment
    # Count number of segments:
    INDEX=1
    while [ ! "" = "$STRING | cut -f $INDEX -d -"" ]; do
      INDEX=`expr $INDEX + 1`
    done
    INDEX=`expr $INDEX - 1` # don't include the null value
  fi
  # If we don't have four segments, return the old-style (or out of spec) package name:
if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
  echo $STRING
else
  # we have four or more segments, so we'll consider this a new-style name:
  NAME='expr $INDEX - 3'
  NAME=""echo $STRING | cut -f 1-$NAME -d -"
  echo $NAME
  # cruft for later ;)
  #VER='expr $INDEX - 2'
  #VER=""echo $STRING | cut -f $VER -d -"
  #ARCH='expr $INDEX - 1'
  #ARCH=""echo $STRING | cut -f $ARCH -d -"
  #BUILD='"echo $STRING | cut -f $INDEX -d -"
fi
fi

remove_packages() {
  for pkg_name in $*
  do
    if [ -r $ADM_DIR/packages/$pkg_name ]; then
      dialog --title "PACKAGE REMOVAL IN PROGRESS" --cr-wrap --infobox "Removing package $pkg_name.
Since each file must be checked against the contents of every other installed package to avoid wiping out areas of overlap, this process can take quite some time. If you'd like to watch the progress, flip over to another virtual console and type:
tail -f $TMP/PKGTOOL.REMOVED"
      export ROOT=$TARGET_DIR
      removepkg $pkg_name >> $LOG 2> /dev/null
    else
      echo "No such package: $pkg_name. Can't remove." >> $LOG
    fi
  done
}

# Here, we read the list of arguments passed to the pkgtool script.
if [ $# -gt 0 ]; then # there are arguments to the command
  while [ $# -gt 0 ]; do
    case "$1" in
      "-sets")
        DISK_SETS='echo $2 | tr "[A-Z]" "[a-z]" ; shift 2 ;;
      "-source_mounted")
        SOURCE_MOUNTED="always" ; shift 1 ;;
      "-ignore_tagfiles")
        ASK="never" ; shift 1 ;;
      "-tagfile")
        if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
          echo $STRING
        else
          # we have four or more segments, so we'll consider this a new-style name:
          NAME='expr $INDEX - 3'
          NAME=""echo $STRING | cut -f 1-$NAME -d -"
          echo $NAME
          # cruft for later ;)
          #VER='expr $INDEX - 2'
          #VER='""echo $STRING | cut -f $VER -d -"
          #ARCH='expr $INDEX - 1'
          #ARCH='""echo $STRING | cut -f $ARCH -d -"
          #BUILD='""echo $STRING | cut -f $INDEX -d -"
          fi
          fi
        fi
        remove_packages() {
          for pkg_name in $*
          do
            if [ -r $ADM_DIR/packages/$pkg_name ]; then
              dialog --title "PACKAGE REMOVAL IN PROGRESS" --cr-wrap --infobox "Removing package $pkg_name.
Since each file must be checked against the contents of every other installed package to avoid wiping out areas of overlap, this process can take quite some time. If you'd like to watch the progress, flip over to another virtual console and type:
tail -f $TMP/PKGTOOL.REMOVED"
              export ROOT=$TARGET_DIR
              removepkg $pkg_name >> $LOG 2> /dev/null
            else
              echo "No such package: $pkg_name. Can't remove." >> $LOG
            fi
          done
        }
        # Here, we read the list of arguments passed to the pkgtool script.
        if [ $# -gt 0 ]; then # there are arguments to the command
          while [ $# -gt 0 ]; do
            case "$1" in
              "-sets")
                DISK_SETS='echo $2 | tr "[A-Z]" "[a-z]" ; shift 2 ;;
              "-source_mounted")
                SOURCE_MOUNTED="always" ; shift 1 ;;
              "-ignore_tagfiles")
                ASK="never" ; shift 1 ;;
              "-tagfile")

USETAG=$2 ; shift 2 ;
"-source_dir"
SOURCE_DIR=$2 ; shift 2 ;
"-target_dir"
TARGET_DIR=$2
ADM_DIR=$TARGET_DIR/var/log
shift 2 ;
"-source_device"
SOURCE_DEVICE=$2 ; shift 2 ;
esac
done
else # there were no arguments, so we'll get the needed information from the
 # user and then go on.
CMD_START="true"
rm -f STMP/SeT+
while [ 0 ]; do
dialog --title "Slackware Package Tool (pkgtool version 9.0.0)" 
--menu "Welcome to the Slackware package tool.\\n\\nWhich option would you like?\\n" 17 75 7 \\
"Current" "Install packages from the current directory"
"Other" "Install packages from some other directory"
"Floppy" "Install packages from floppy disks"
"Remove" "Remove packages that are currently installed"
"View" "View the list of files contained in a package"
"Setup" "Choose Slackware installation scripts to run again"
"Exit" "Exit Pkgtool" 2> $TMP/reply
if [ ! $? = 0 ]; then
    rm -f $TMP/reply
dialog --clear
    exit
fi
REPLY=""cat $TMP/reply"
rm -f $TMP/reply
if [ "$REPLY" = "Exit" ]; then
dialog --clear
    exit
fi
if [ "$REPLY" = "Setup" ]; then
echo 'dialog --title "SELECT SYSTEM SETUP SCRIPTS" --item-help --checklist \\
"Please use the spacebar to select the setup scripts to run. Hit enter when you "
are done selecting to run the scripts." 17 70 9 > $TMP/setupscr
for script in $ADM_DIR/setup/setup.* ; do
    BLURB='grep '#BLURB' $script | cut -b8-'
    if [ "$BLURB" = "" ]; then
        BLURB="\""
    fi
echo " \"basename $script | cut -f2 -d .\" "$BLURB \"no\" "$BLURB \" \" >> $TMP/setupscr
done
echo "2> $TMP/return" >> $TMP/setupscri
. $TMP/setupscri
if [ 1 ""cat $TMP/return” = "" ]; then
  # Run each script:
  for script in 'cat $TMP/return'; do
    #scrpath=$ADM_DIR/setup/setup.'echo $script | tr -d ""'
    rootdevice=""mount | head -1 | cut -f 1 -d ' ""
    ( COLOR=on ; cd $TARGET_DIR ; . $scrpath / $rootdevice )
    done
fi
rm -f $TMP/return $TMP/setupscri
continue
fi # end Setup
if [ "$REPLY" = "View" ]; then
  DEFITEM=""
  export DEFITEM
  dialog --title "SCANNING" --infobox "Please wait while Pkgtool scans your system to determine which packages you have installed and prepares a list for you." 0 0
  echo 'dialog $DEFITEM --item-help --menu "Please select the package you wish to view." 17 68 10 ' >> $TMP/viewscr
  for name in 'ls $ADM_DIR/packages' ; do
    pkg_name='package_name $name'
    BLURB=""sed -n "/$pkg_name:/g;p:q;:\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"
    # Let's have some backward compatibility with the interim beta (for now):
    if [ "$BLURB" = "" ]; then
      BLURB=""sed -n "/$name:/g;p:q;:\" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch"
    fi
    echo "$name " "$BLURB" "View information about package $name" "" >> $TMP/viewscr
  done
  echo "2> $TMP/return" >> $TMP/viewscr
  while [ 0 ]; do
    . $TMP/viewscr
    if [ 1 ""cat $TMP/return" = "" ]; then
      DEFITEM=""--default-item 'cat $TMP/return"
      dialog --title "CONTENTS OF PACKAGE: 'cat $TMP/return" --no-shadow --textbox "$ADM_DIR/packages/cat $TMP/return" \ 0 0 2>/dev/null
    else
      break
  fi
done
rm -f $TMP/return $TMP/viewscr $TMP/tmpmsg
# This will clean up after most defective packages:
chmod 755 /
chmod 1777 /tmp
continue
fi
if [ "$SREPLY" = "Remove" ]; then
dialog --title "SCANNING" --infobox "Please wait while Pkgtool scans your system to determine which packages you have installed and prepares a list for you." 0 0
# end section
cat << EOF > $TMP/rmscript
dialog --title "SELECT PACKAGES TO REMOVE" --item-help --checklist "Please select the packages you wish to Remove. Use the spacebar to select packages to delete, and the UP/DOWN arrow keys to scroll up and down through the entire list." 20 75 11
EOF
for name in 'ls $ADM_DIR/packages'; do	pkg_name='package_name $name'
BLURB="'sed -n "/$pkg_name:/{s/"//g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch'"
# Let's have some backward compatibility with the interim beta (for now):
if [ "$BLURB" = "" ]; then
 BLURB="'sed -n "/$name:/{s/"//g;p;q;}" $ADM_DIR/packages/$name | cut -f 2- -d : | crunch'"
fi
echo " "$name" "$BLURB" off "Select/Unselect removing package $name" ">
>> $TMP/rmscript
done
echo "2> $TMP/return" >> $TMP/rmscript
if [ -L $LOG -o -r $LOG ]; then
 rm -f SLOG
fi
cat /dev/null > SLOG
chmod 600 SLOG
chmod 700 $TMP/rmscript
export ADM_DIR;
$TMP/rmscript
remove_packages 'cat $TMP/return | tr -d "\042"'
if [ "'cat $TMP/PKGTOOL.REMOVED" = "" ]; then
 rm -f $TMP/PKGTOOL.REMOVED
dialog --title "NO PACKAGES REMOVED" --msgbox "Hit OK to return to the main menu." 5 40
else
dialog --title "PACKAGE REMOVAL COMPLETE" --msgbox "The packages have been removed. A complete log of the files that were removed has been created in $TMP: PKGTOOL.REMOVED." 0 0
fi
rmdir $TMP/return $TMP/tmpmsg $TMP/SeT*
chmod 755 /
chmod 1777 /tmp
# No, return to the main menu:
# exit
eelif [ "$SREPLY" = "Floppy" ]; then
dialog --title "SELECT FLOPPY DRIVE" --menu "Which floppy drive would you like to install from?" 

11 70 4\ 
"/dev/fd0u1440" "1.44 MB first floppy drive" \ 
"/dev/fd1u1440" "1.44 MB second floppy drive" \ 
"/dev/fd0h1200" "1.2 MB first floppy drive" \ 
"/dev/fd1h1200" "1.2 MB second floppy drive" 2> $TMP/wdrive 
if [ $? = 1 ]; then 
    dialog --clear 
    exit 
fi 
SOURCE_DEVICE=""cat $TMP/wdrive""
rm -f $TMP/wdrive 
cat << EOF > $TMP/tmpmsg
Enter the names of any disk sets you would like to install. 
Separate the sets with a space, like this: a b o i x 

To install packages from one disk, hit [enter] without typing anything. 

EOF
    dialog --title "SOFTWARE SELECTION" --inputbox ""cat $TMP/tmpmsg"" 13 70 2> $TMP/sets
    DISK_SETS=""cat $TMP/sets"
    rm -f $TMP/sets
    if [ "$DISK_SETS" = "" ]; then 
        DISK_SETS="disk"
    else 
        DISK_SETS='echo $DISK_SETS | sed 's/ /#/g''
        DISK_SETS="#$DISK_SETS"
    fi 
    break;
elif [ "$REPLY" = "Other" ]; then 
    dialog --title "SELECT SOURCE DIRECTORY" --inputbox "Please enter the name of the directory that you wish to install packages from:" 10 50 2> $TMP/pkgdir 
    if [ $? = 1 ]; then 
        rm -f $TMP/pkgdir $TMP/SeT* 
        dialog --clear 
        exit 
    fi 
    SOURCE_DIR=""cat $TMP/pkgdir"
    SOURCE_MOUNTED="always" 
    DISK_SETS="disk"
    chmod 755 $TARGET_DIR 
    chmod 1777 $TARGET_DIR/tmp 
    rm -f $TMP/pkgdir 
    if [ ! -d $SOURCE_DIR ]; then 
        dialog --title "DIRECTORY NOT FOUND" --msgbox "The directory you want to install from ($SOURCE_DIR)" 
    fi 

does not seem to exist. Please check the directory and then try again."

dialog --clear
exit
fi
break;
else # installing from current directory
SOURCE_MOUNTED="always"
SOURCE_DIR="$PWD"
DISK_SETS="disk"
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
break;
fi
done
fi
if [ "$DISK_SETS" = "disk" ]; then
ASK="always"
fi

mount_the_source() {
# is the source supposed to be mounted already?
if [ "$SOURCE_MOUNTED" = "always" ]; then
# The source should already be mounted, so we test it
if [ ! -d $SOURCE_DIR ]; then # the directory is missing
    cat "< EOF > $TMP/tmpmsg"
EOF
Your source device cannot be accessed properly.

Please be sure that it is mounted on $SOURCE_DIR,
and that the Slackware disks are found in subdirectories
of $SOURCE_DIR like specified.

EOF
    dialog --title "MOUNT ERROR" --msgbox "cat $TMP/tmpmsg" 11 67
    rm -f $TMP/tmpmsg
    exit 1;
fi
return 0;
fi
dialog --title "INSERT DISK" --menu "Please insert disk $1 and \npress ENTER to continue." \n11 50 3 
"Continue" "Continue with the installation" \n"Skip" "Skip the current disk series" \n"Quit" "Abort the installation process" 2> $TMP/reply
if [ ! $? = 0 ]; then
    REPLY="Quit"
```bash
else
   REPLY="cat $TMP/reply"
fi
rm -f $TMP/reply
if [ "$REPLY" = "Skip" ]; then
   return 1;
fi
if [ "$REPLY" = "Quit" ]; then
dialog --title "ABORTING" --msgbox "Aborting software installation." 5 50
chmod 755 $TARGET_DIR
chmod 1777 $TARGET_DIR/tmp
exit 1;
fi;
# Old line:
# mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
# New ones: (thanks to Andy Schwierskott!)
go_on=y
not_successfull_mounted=1
while [ "$go_on" = y -a "$not_successfull_mounted" = 1 ]; do
   mount -r -t msdos $SOURCE_DEVICE $SOURCE_DIR
   not_successfull_mounted=$?
   if [ "$not_successfull_mounted" = 1 ]; then
      mount_answer=x
      while [ "$mount_answer" != "y" -a "$mount_answer" != "q" ]; do
         dialog --title "MOUNT PROBLEM" --menu "Media was not successfully mounted! Do you want to retry, or quit?"
          "Yes" "Try to mount the disk again"
          "No" "No, abort.
         " $TMP/mntans
         mount_answer="cat $TMP/mntans"
         rm -f $TMP/mntans
         if [ "$mount_answer" = "Yes" ]; then
            mount_answer="y"
         else
            mount_answer="q"
         fi
done
   go_on=$mount_answer
fi
done
test $not_successfull_mounted = 0
}

umount_the_source() {
   if [ ! "$SOURCE_MOUNTED" = "always" ]; then
      umount $SOURCE_DEVICE 1> /dev/null 2>&1
   fi;
}
```
install_disk() {
    mount_the_source $1
    if [ $? = 1 ]; then
        umount_the_source;
        return 1;
    fi
    CURRENT_DISK_NAME="$1"
    PACKAGE_DIR=SOURCE_DIR
    if [ "$SOURCE_MOUNTED" = "always" -a "$DISK_SETS" = "disk" ]; then
        PACKAGE_DIR=PACKAGE_DIR/$1
    fi

    # If this directory is missing or contains no *.tgz files, bail.
    if [ ! -d PACKAGE_DIR ]; then
        return 1
    fi
    if ls PACKAGE_DIR/*.tgz 1> /dev/null 2> /dev/null ; then
        true
    else
        return 1
    fi

    # Look for tagfile for this series and copy into $TMP/tagfile
    touch $TMP/tagfile
    if [ ! "$DISK_SETS" = "disk" ]; then
        if [ -r $TMP/SeTtagext ]; then
            if [ -r $PACKAGE_DIR/tagfile |cat $TMP/SeTtagext ]; then
                cat $PACKAGE_DIR/tagfile |cat $TMP/SeTtagext >> $TMP/tagfile
            else
                if [ -r $PACKAGE_DIR/tagfile ]; then
                    cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
                fi
            fi
        elif [ -r $TMP/SeTtagpath ]; then
            custom_path='cat $TMP/SeTtagpath'
            short_path='basename $PACKAGE_DIR'
            if [ -r $custom_path/$short_path/tagfile ]; then
                cat $custom_path/$short_path/tagfile >> $TMP/tagfile
            fi
        fi

    # Do we need to follow a custom path to the tagfiles?
    elif [ -r $TMP/SeTtagpath ]; then
        custom_path='cat $TMP/SeTtagpath'
        short_path='basename $PACKAGE_DIR'

        # If tagfile exists at the specified custom path, copy it over.
        if [ -r $custom_path/$short_path/tagfile ]; then
            cat $custom_path/$short_path/tagfile >> $TMP/tagfile
        fi
    fi
else # well, I guess we'll use the default one then.
if [ -r $PACKAGE_DIR/tagfile ]; then
    cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
fi
fi
#
# We seem to be testing for this too often... maybe this code should
# be optimized a little...
#
elif [ -r $PACKAGE_DIR/tagfile ]; then
    cat $PACKAGE_DIR/tagfile >> $TMP/tagfile
fi
#
# Execute menus if in QUICK mode:
#
if [ -r $TMP/SeTQUICK -a -r $PACKAGE_DIR/maketag ]; then
    if [ ! "$MAKETAG" = "" -a -r $PACKAGE_DIR/$MAKETAG ]; then # use alternate maketag
        sh $PACKAGE_DIR/$MAKETAG
    else
        sh $PACKAGE_DIR/maketag
    fi
    if [ -r $TMP/SeTnewtag ]; then
        mv $TMP/SeTnewtag $TMP/tagfile
    fi
    fi
#
# Protect tagfile from hacker attack:
#
if [ -r $TMP/tagfile ]; then
    chmod 600 $TMP/tagfile
fi
fi 
# ! "$DISK_SETS" = "disk"

# It's possible that the tagfile was specified on the command line. If that's
# the case, then we'll just override whatever we figured out up above.
if [ ! "$USETAG" = "" ]; then
    cat $USETAG > $TMP/tagfile
fi
#
# If there's a catalog file present, use it to check for missing files.
# If not, forget about that and install whatever's there.
if [ "$1" = "single_disk" -o -r $PACKAGE_DIR/disk$1 -o -r $PACKAGE_DIR/package-list.txt ]; then
    if [ -r $PACKAGE_DIR/package-list.txt ]; then
        CATALOG_FILE=$PACKAGE_DIR/package-list.txt
    else
        CATALOG_FILE=$PACKAGE_DIR/disk$1
    fi
    #
    # Execute menus if in QUICK mode:
    #
    if [ -r $TMP/SeTQUICK -a -r $PACKAGE_DIR/maketag ]; then
        if [ ! "$MAKETAG" = "" -a -r $PACKAGE_DIR/$MAKETAG ]; then # use alternate maketag
            sh $PACKAGE_DIR/$MAKETAG
        else
            sh $PACKAGE_DIR/maketag
        fi
        if [ -r $TMP/SeTnewtag ]; then
            mv $TMP/SeTnewtag $TMP/tagfile
        fi
        fi
    #
    # Protect tagfile from hacker attack:
    #
    if [ -r $TMP/tagfile ]; then
        chmod 600 $TMP/tagfile
    fi
    fi # ! "$DISK_SETS" = "disk"

    # It's possible that the tagfile was specified on the command line. If that's
    # the case, then we'll just override whatever we figured out up above.
    if [ ! "$USETAG" = "" ]; then
        cat $USETAG > $TMP/tagfile
    fi
    #
    # If there's a catalog file present, use it to check for missing files.
    # If not, forget about that and install whatever's there.
    if [ "$1" = "single_disk" -o -r $PACKAGE_DIR/disk$1 -o -r $PACKAGE_DIR/package-list.txt ]; then
        if [ -r $PACKAGE_DIR/package-list.txt ]; then
            CATALOG_FILE=$PACKAGE_DIR/package-list.txt
        else
            CATALOG_FILE=$PACKAGE_DIR/disk$1
        fi
        #
        # Execute menus if in QUICK mode:
        #
        if [ -r $TMP/SeTQUICK -a -r $PACKAGE_DIR/maketag ]; then
            if [ ! "$MAKETAG" = "" -a -r $PACKAGE_DIR/$MAKETAG ]; then # use alternate maketag
                sh $PACKAGE_DIR/$MAKETAG
            else
                sh $PACKAGE_DIR/maketag
            fi
            if [ -r $TMP/SeTnewtag ]; then
                mv $TMP/SeTnewtag $TMP/tagfile
            fi
            fi
        #
        # Protect tagfile from hacker attack:
        #
        if [ -r $TMP/tagfile ]; then
            chmod 600 $TMP/tagfile
        fi
        fi # ! "$DISK_SETS" = "disk"
CATALOG_FILE='basename $PACKAGE_DIR/disk*';
fi
if [ -r $PACKAGE_DIR/$CATALOG_FILE -a ! -d $PACKAGE_DIR/$CATALOG_FILE ]; then
if grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE 1> /dev/null 2>&1 ; then
# First we check for missing packages...
for PKGTEST in 'grep "^CONTENTS:" $PACKAGE_DIR/$CATALOG_FILE | cut -f2- -d : 2> /dev/null' ; do
# This is not a perfect test. (say emacs is missing but emacs-nox is not)
if ls $PACKAGE_DIR/$PKGTEST*.tgz 1> /dev/null 2> /dev/null ; then # found something like it
true
else
cat << EOF > $TMP/tmpmsg
WARNING!!!
While looking through your index file ($CATALOG_FILE),
I noticed that you might be missing a package:
$PKGTEST-\*-\*-\*.tgz
that is supposed to be on this disk (disk $1). You may go
on with the installation if you wish, but if this is a
crucial file I'm making no promises that your machine will
boot.
EOF
dialog --title "FILE MISSING FROM YOUR DISK" --msgbox \
"'cat $TMP/tmpmsg'" 17 67
fi
done # checking for missing packages
# Now we test for extra packages:
ALLOWED="'grep CONTENTS: $PACKAGE_DIR/$CATALOG_FILE | cut -b10- 2> /dev/null'"
for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
BASE="'basename $PACKAGE_FILENAME .tgz'"
BASE="'package_name $BASE'"
if echo $ALLOWED | grep $BASE 1> /dev/null 2>&1 ; then
true
else
cat << EOF > $TMP/tmpmsg
WARNING!!!
While looking through your index file ($CATALOG_FILE),
I noticed that you have this extra package:
($BASE.tgz)
that I don't recognize. Please be sure this package is
really supposed to be here, and is not left over from an

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old version of Slackware. Sometimes this can happen at the
archive sites.

EOF
dialog --title "EXTRA FILE FOUND ON YOUR DISK" \
--msgbox "cat $TMP/tmpmsg" 17 67
rm -f $TMP/tmpmsg
fi
done
fi
fi
fi
fi # check for missing(extra packages

# Install the packages:
for PACKAGE_FILENAME in $PACKAGE_DIR/*.tgz; do
if [ "PACKAGE_FILENAME" = "$PACKAGE_DIR/*.tgz" ]; then
    continue;
fi
if [ "$ASK" = "never" ]; then # install the package
    installpkg -root $TARGET_DIR -infobox -tagfile $TMP/tagfile $PACKAGE_FILENAME
    ERROR=$?
elif [ "$ASK" = "tagfiles" ]; then
    installpkg -root $TARGET_DIR -menu -tagfile $TMP/tagfile $PACKAGE_FILENAME
    ERROR=$?
else # ASK should be = always here, and that's how we'll treat it
    installpkg -root $TARGET_DIR -menu -ask -tagfile $TMP/tagfile $PACKAGE_FILENAME
    ERROR=$?
fi
# Check for abort:
if [ "$ERROR" = "99" ]; then
    umount_the_source;
    chmod 755 $TARGET_DIR
    chmod 1777 $TARGET_DIR/tmp
    exit 1;
fi
done
OUTTAHERE="false"
if [ -r $PACKAGE_DIR/install.end ]; then
    OUTTAHERE="true"
fi
umount_the_source;
if [ "$OUTTAHERE" = "true" ]; then
    return 1;
fi
}

install_disk_set() { # accepts one argument: the series name in lowercase.
SERIES_NAME=$1
CURRENT_DISK_NUMBER="1";
while [ 0 ]; do
    # Don't start numbering the directories until 2:
    if [ $CURRENT_DISK_NUMBER = 1 ]; then
        DISKTOINSTALL=$SERIES_NAME
    else
        DISKTOINSTALL=$SERIES_NAME$CURRENT_DISK_NUMBER
    fi
    install_disk $DISKTOINSTALL
    if [ ! $? = 0 ]; then # install.end was found, or the user chose
        # to quit installing packages.
        return 0;
    fi
    CURRENT_DISK_NUMBER=`expr $CURRENT_DISK_NUMBER + 1`
    done;
#
if [ "$DISK_SETS" = "disk" ]; then
    install_disk single_disk;
    ASK="always"
else
    touch $TMP/tagfile
    chmod 600 $TMP/tagfile
    if echo $DISK_SETS | grep "#a#" 1> /dev/null 2>&1; then
        A_IS_NEEDED="true"
    else
        A_IS_NEEDED="false"
    fi
    while [ 0 ];
        do
            while [ 0 ]; # strip leading '#'s
                do
                    if [ "'echo $DISK_SETS | cut -b1'" = "#" ]; then
                        DISK_SETS="'echo $DISK_SETS | cut -b2-"
                    else
                        break;
                    fi
                done
            if [ "$A_IS_NEEDED" = "true" ]; then
                cat << EOF > $TMP/tmpmsg
                    --- Installing package series ==a==
                EOF
                dialog --infobox "cat $TMP/tmpmsg" 5 45
                sleep 1
                rm -f $TMP/tmpmsg
        --- Installing package series ==a==
        EOF
        dialog --infobox "cat $TMP/tmpmsg" 5 45
        sleep 1
        rm -f $TMP/tmpmsg
install_disk_set a;
A_IS_NEEDED="false"
fi
count="1"
if [ "echo $DISK_SETS | cut -b$count" = "" ]; then
  break; # we be done here :^)
else
count="2"
while [ 0 ]; do
  if [ "echo $DISK_SETS | cut -b$count" = "" -o "echo $DISK_SETS | cut -b$count" = ";" ]; then
    count="expr $count - 1"
    break;
  else
    count="expr $count + 1"
  fi
done
fi
diskset="echo $DISK_SETS | cut -b1-$count"
count="expr $count + 1"
DISK_SETS="echo $DISK_SETS | cut -b$count-"
if [ "$diskset" = "a" ]; then
  continue; # we expect this to be done elsewhere
  fi
cat << EOF > $TMP/tmpmsg
  Installing package series ==>$diskset<==
EOF
dialog --infobox "cat $TMP/tmpmsg" 5 45
sleep 1
rm -f $TMP/tmpmsg
install_disk_set $diskset;
done
fi
if [ "$DISK_SETS" = "disk" -o "$CMD_START" = "true" ]; then
  if [ -r $TMP/tagfile ]; then
    rm $TMP/tagfile
  fi
dialog --clear
  fi
chmod 755 $TARGET_DIR $TARGET_DIR/var $TARGET_DIR/usr
chmod 1777 $TARGET_DIR/tmp
#!/bin/sh
# Slackware remove package script
#
# Revision 1.8 Thu Nov 22 14:00:13 PST 2001 volkerding Rel $
# - Understand the idea of a base package name, so that packages
# can be removed with any of these notations:
# removepkg foo-1.0-i386-1.tgz
# removepkg foo-1.0-i386-1
# removepkg foo.tgz
# removepkg foo
#
# Revision 1.7 2001/03/30 12:36:28 volkerding
# - Strip extra ".tgz" from input names.
#
# Revision 1.6 1999/03/25 18:26:41 volkerding
# - Use external $ROOT variable, like installpkg.
#
# Revision 1.5.1 1998/03/18 15:37:28 volkerding
# - Since removepkg is always run by root, the temp directory has been
#   moved from /tmp to a private directory to avoid symlink attacks from
#   malicious users.
#
# Revision 1.5 1997/06/26 12:09:53 franke
# - Fixed old bug in TRIGGER regex setting
# - -preserve/-copy options now preserve non-unique files
#   and empty directories also
#
# Revision 1.4 1997/06/09 13:21:36 franke
# - Package file preserve (-preserve, -copy) added.
# - Don't execute "rm -rf" lines from doinst.sh, removing links explicit.
# - Warning on no longer existing files added.
# - Warning on files changed after package installation added.
# - Intermediate file preserve (-keep) added.
# - Check for required files/links now done on a combined list.
# - Write access to /var/log/{packages,scripts} no longer necessary for -warn.
#
# Revision 1.3 1997/06/08 13:03:05 franke
# Merged with revision 1.1.1.1
#
# Revision 1.2 1996/06/01 20:04:26 franke
# Delete empty directories & formatted manual pages added
#
# Revision 1.1.1.1 1995/12/18 21:20:42 volkerding
# Original Version from Slackware 3.1
#
# Revision 1.1 1995/06/05 22:49:11 volkerding
# Original Version from Slackware 3.0
#
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# WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
# OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
# ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
# Make sure there's a proper temp directory:
TMP=$ROOT/var/log/setup/tmp
# If the $TMP directory doesn't exist, create it:
if [ ! -d $TMP ]; then
rm -rf $TMP # make sure it's not a symlink or something stupid
mkdir -p $TMP
chmod 700 $TMP # no need to leave it open
fi
ADM_DIR=$ROOT/var/log
PRES_DIR=$TMP/preserved_packages
cat_except() {
( cd "$1" && cat 'ls * | sed "/^$2\$/d"' )
}
extract_links() {
sed -n 's,^( *cd \([^ ;][^ ;]*\) *; *rm -rf \([^ )][^ )]*\) *) *$,\1/\2,p'
}
preserve_file() {
if [ "$PRESERVE" = "true" ]; then
F="'basename "$1"'"
D="'dirname "$1"'"
if [ ! -d "$PRES_DIR/$PKGNAME/$D" ]; then
mkdir -p "$PRES_DIR/$PKGNAME/$D" || return 1
fi
cp -p "$ROOT/$D/$F" "$PRES_DIR/$PKGNAME/$D" || return 1
fi
return 0

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preserve_dir() {
  if [ "$PRESERVE" = "true" ]; then
    if [ ! -d "$PRES_DIR/$PKGNAME/$1" ]; then
      mkdir -p "$PRES_DIR/$PKGNAME/$1" || return 1
    fi
  fi
  return 0
}

keep_files() {
  while read FILE ; do
    if [ ! -d "$ROOT/$FILE" ]; then
      if [ -r "$ROOT/$FILE" ]; then
        echo "  --> $ROOT/$FILE was found in another package. Skipping."
        preserve_file "$FILE"
      else
        if [ "$FILE" != "install/" ]; then
          echo "WARNING: Nonexistent $ROOT/$FILE was found in another package. Skipping."
        fi
      else
        preserve_dir "$FILE"
      fi
    done
}

keep_links() {
  while read LINK ; do
    if [ -L "$ROOT/$LINK" ]; then
      echo "  --> $ROOT/$LINK (symlink) was found in another package. Skipping."
    else
      echo "WARNING: Nonexistent $ROOT/$LINK (symlink) was found in another package. Skipping."
    fi
  done
}

delete_files() {
  while read FILE ; do
    if [ ! -d "$ROOT/$FILE" ]; then
      if [ -r "$ROOT/$FILE" ]; then
        if [ "$ROOT/$FILE" -nt "$ADM_DIR/packages/$PKGNAME" ]; then
          echo "WARNING: $ROOT/$FILE changed after package installation."
        fi
        if [ ! "$WARN" = "true" ]; then
          echo "  --> Deleting $ROOT/$FILE"
          preserve_file "$FILE" && rm -f "$ROOT/$FILE"
        fi
      fi
    fi
  done
}
else
echo "  --> $ROOT/$FILE would be deleted"
preserve_file "$FILE"
fi
else
echo "  --> $ROOT/$FILE no longer exists. Skipping."
fi
else
preserve_dir "$FILE"
fi
done
}

delete_links() {
while read LINK ; do
if [ -L "$ROOT/$LINK" ]; then
if [ ! "$WARN" = "true" ]; then
    echo "    --> Deleting symlink $ROOT/$LINK"
    rm -f $ROOT/$LINK
else
    echo "    --> $ROOT/$LINK (symlink) would be deleted"
fi
else
    echo "    --> $ROOT/$LINK (symlink) no longer exists. Skipping."
fi
done
}

delete_dirs() {
sort -r |
while read DIR ; do
if [ -d "$ROOT/$DIR" ]; then
    if [ ! "$WARN" = "true" ]; then
        if [ 'ls -a "$ROOT/$DIR" | wc -l' -eq 2 ]; then
            echo "    --> Deleting empty directory $ROOT/$DIR"
rmdir $ROOT/$DIR
        else
            echo "    WARNING: Unique directory $ROOT/$DIR contains new files"
fi
    fi
else
    echo "    --> $ROOT/$DIR (dir) would be deleted if empty"
fi
done
}

delete_cats() {
    sed -n 's,/man\([^/]*\)/,\cat\1.p/ | \

while read FILE ; do
  if [ -f "$ROOT/$FILE" ]; then
    if [ ! "$WARN" = "true" ]; then
      echo "  --> Deleting $ROOT/$FILE (fmt man page)"
      rm -f $ROOT/$FILE
    else
      echo "  --> $ROOT/$FILE (fmt man page) would be deleted"
    fi
  fi
done

package_name() {
  STRING='basename $1 .tgz'
  # Check for old style package name with one segment:
  if [ ""$STRING | cut -f 1 -d -"" = "$STRING | cut -f 2 -d -"" ]; then
    echo $STRING
  else # has more than one dash delimited segment
    # Count number of segments:
    INDEX=1
    while [ ! "$STRING | cut -f $INDEX -d -" = "" ]; do
      INDEX='expr $INDEX + 1'
    done
    INDEX='expr $INDEX - 1' # don't include the null value
    # If we don't have four segments, return the old-style (or out of spec) package name:
    if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
      echo $STRING
    else # we have four or more segments, so we'll consider this a new-style name:
      NAME='expr $INDEX - 3'
      NAME=""$STRING | cut -f 1-$NAME -d -"
      echo $NAME
      # cruft for later ;)
      #VER='expr $INDEX - 2'
      #VER=""$STRING | cut -f $INDEX -d -"
      #ARCH='expr $INDEX - 1'
      #ARCH=""$STRING | cut -f $INDEX -d -"
      #BUILD='"$STRING | cut -f $INDEX -d -"
      fi
    fi
  fi
}

# Conversion to 'comm' utility by Mark Wisdom.
# is pretty nifty! :^)
remove_packages() {
  for PKGLIST in $*
  do
    PKGNAME='basename $PKGLIST .tgz'
    echo
# If we don't have a package match here, then we will attempt to find
# a package using the long name format (name-version-arch-build) for
# which the base package name was given. On a properly-managed machine,
# there should only be one package installed with a given basename, but
# we don't enforce this policy. If there's more than one, only one will
# be removed. If you want to remove them all, you'll need to run
# removepkg again until it removes all the same-named packages.
if [ ! -e $ADM_DIR/packages/$PKGNAME ]; then
  SHORT="\"package_name $PKGNAME\""
  for long_package in $ADM_DIR/packages/${PKGNAME}* ; do
    if [ "\"package_name $PKGNAME\"" = "\"package_name $long_package\"" ]; then
      PKGNAME="basename $long_package"
    fi
  done
  if [ -r $ADM_DIR/packages/$PKGNAME ]; then
    if [ ! "$WARN" = true ]; then
      echo "Removing package $ADM_DIR/packages/$PKGNAME..."
    fi
    if fgrep "./" $ADM_DIR/packages/$PKGNAME 1> /dev/null 2>&1; then
      TRIGGER="^\.\/"
    else
      TRIGGER="FILE LIST:"\n    fi
    if [ ! "$WARN" = true ]; then
      echo "Removing files:"\n    fi
    sed -n "/$TRIGGER/,/^$/p" < $ADM_DIR/packages/$PKGNAME | \
    fgrep -v "FILE LIST:" | sort -u > $TMP/delete_list$$
    # Pat's new-new && improved pre-removal routine.
    cat_except $ADM_DIR/packages $PKGNAME | sort -u > $TMP/required_list$$
    if [ -r $ADM_DIR/scripts/$PKGNAME ]; then
      extract_links < $ADM_DIR/scripts/$PKGNAME | sort -u > $TMP/del_link_list$$
      cat_except $ADM_DIR/scripts $PKGNAME | extract_links | \
      sort -u > $TMP/required_links$$
      mv $TMP/required_list$$ $TMP/required_files$$
      sort -u $TMP/required_links$$ $TMP/required_files$$ > $TMP/required_list$$
      comm -12 $TMP/del_link_list$$ $TMP/required_list$$ | keep_links
      comm -23 $TMP/del_link_list$$ $TMP/required_list$$ | delete_links
    else
      cat $ADM_DIR/scripts/* | extract_links | \
      sort -u > $TMP/required_links$$
      mv $TMP/required_list$$ $TMP/required_files$$
      sort -u $TMP/required_links$$ $TMP/required_files$$ >$TMP/required_list$$
    fi
    comm -12 $TMP/delete_list$$ $TMP/required_list$$ | keep_files
    comm -23 $TMP/delete_list$$ $TMP/required_list$$ > $TMP/uniq_list$$
    delete_files < $TMP/uniq_list$$
  fi
fi

delete_dirs < $TMP/uniq_list$
delete_cats < $TMP/uniq_list$
if [ ! "$KEEP" = "true" ]; then
    rm -f $TMP/delete_list$ $TMP/required_files$ $TMP/uniq_list$
    rm -f $TMP/del_link_list$ $TMP/required_links$ $TMP/required_list$
fi
if [ "$PRESERVE" = "true" ]; then
    if [ -r $ADM_DIR/scripts/$PKGNAME ]; then
        if [ ! -d "$PRESERVE/$PKGNAME/install" ]; then
            mkdir -p "$PRESERVE/$PKGNAME/install"
        fi
        cp -p $ADM_DIR/scripts/$PKGNAME $PRES_DIR/$PKGNAME/install/doinst.sh
    fi
fi
if [ ! "$WARN" = "true" ]; then
    for DIR in $ADM_DIR/removed_packages $ADM_DIR/removed_scripts ; do
        if [ ! -d $DIR ] ; then mkdir -p $DIR ; chmod 755 $DIR ; fi
    done
    mv $ADM_DIR/packages/$PKGNAME $ADM_DIR/removed_packages
    if [ -r $ADM_DIR/scripts/$PKGNAME ]; then
        mv $ADM_DIR/scripts/$PKGNAME $ADM_DIR/removed_scripts
    fi
else
    echo "No such package: $ADM_DIR/packages/$PKGNAME. Can't remove."
fi
done
if [ "$#" = "0" ]; then
    echo "Usage: 'basename $0' [-copy] [-keep] [-preserve] [-warn] packagename ..."; exit 1
fi
while : ; do
case "$1" in
    -copy) WARN=true; PRESERVE=true; shift;;;
    -keep) KEEP=true; shift;;;
    -preserve) PRESERVE=true; shift;;;
    -warn) WARN=true; shift;;;
    -*) echo "Usage: 'basename $0' [-copy] [-keep] [-preserve] [-warn] packagename ..."; exit 1;;
*) break
esac
done
if [ "$WARN" = "true" ]; then
    echo "Only warning... not actually removing any files."
fi
if [ "$PRESERVE" = "true" ]; then
    echo "Package contents is copied to $PRES_DIR."
fi
echo "Here's what would be removed (and left behind) if you"
echo "removed the package(s):"
echo
else
if [ "$PRESERVE" = "true" ]; then
  echo "Package contents is copied to $PRES_DIR."
fi
fi

remove_packages $*

#!/bin/sh
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#    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
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#    WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
#    OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
#    ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
# Modified to handle either old 8.3 or new package-version-arch-build.tgz
# packages, Sat Nov 17 14:25:58 PST 2001 volkerdi
#
# Rewritten to clean out _all_ old packages of a given basename, not just
# the first one found, Thu Apr  4 01:01:05 PST 2002 volkerdi
#
# Added --install-new and --reinstall, Fri May 31 14:11:14 PDT 2002 volkerdi

usage() {
  cat << EOF
Usage: upgradepkg newpackage [newpackage2 ... ]
    upgradepkg oldpackage%newpackage [oldpackage2%newpackage2 ... ]
EOF
Upgradepkg upgrades a Slackware .tgz package from an older version to a newer one. It does this by INSTALLING the new package onto the system, and then REMOVING any files from the old package that aren't in the new package. If the old and new packages have the same name, a single argument is all that is required. If the packages have different names, supply the name of the old package followed by a percent symbol (%), then the name of the new package. Do not add any extra whitespace between pairs of old/new package names.

Before upgrading a package, save any configuration files (such as in /etc) that you wish to keep. Sometimes these will be preserved, but it depends on the package structure. If you want to force new versions of the config files to be installed, remove the old ones manually prior to running upgradepkg.

To upgrade in a directory other than / (such as /mnt):

```
ROOT=/mnt upgradepkg package.tgz
```

EOF
}

# Make sure there’s a proper temp directory:
TMP=/var/log/setup/tmp
# If the $TMP directory doesn’t exist, create it:
if [ ! -d $TMP ]; then
   rm -rf $TMP # make sure it's not a symlink or something stupid
   mkdir $TMP
   chmod 700 $TMP # no need to leave it open
fi

# $ROOT defined?
if [ -d "$ROOT" ]; then
   export ROOT
fi

# --help or no args?
if [ "$1" = "" -o "$1" = "--help" -o "$1" = "-?" ]; then
   usage;
   exit 1;
fi

# Arg processing loop. These must come before any packages are listed.
while [ 0 ]; do
   if [ "$1" = "--no-paranoia" ]; then
      # Enable --no-paranoia mode. This is so not-recommended that we're
      # not even going to document it. :)  If a file used to be directly
      # managed and now is moved into place, using --no-paranoia will cause
      # it to improperly disappear. It does slightly speed things up, though.
      # Don't use it.
NOT_PARANOID="true"
shift 1
elif [ "$1" = "--install-new" ]; then
# Install packages that do not already have an installed version.
# The usual default is to skip them.
INSTALL_NEW="yes"
shift 1
elif [ "$1" = "--reinstall" ]; then
# Reinstall packages even if the installed one is the same version.
REINSTALL="true"
shift 1
elif [ "$1" = "--verbose" -o "$1" = "-v" ]; then
# We're adding a --verbose mode that doesn't filter removepkg as much
VERBOSE="verbose"
shift 1
else # no more args
break;
fi
done # processing args
ERRCODE=0
# Main processing loop:
while [ ! "$1" = "" ]; do
# Figure out the names of the old and new packages:
OLD='echo $1 | cut -f 1 -d '%''
NEW='echo $1 | cut -f 2 -d '%''
INCOMINGDIR='dirname $NEW'
OLD='basename $OLD .tgz'
NEW='basename $NEW .tgz'
# Here's a function to figure out the package name from one of those
# new long filenames. We'll need this to double check the name of the
# old package.
package_name() {
STRING='basename $1 .tgz'
# Check for old style package name with one segment:
if [ "'echo $STRING | cut -f 1 -d -'" = "'echo $STRING | cut -f 2 -d -'" ]; then
echo $STRING
else # has more than one dash delimited segment
# Count number of segments:
INDEX=1
while [ ! "'echo $STRING | cut -f $INDEX -d -'" = "" ]; do
INDEX='expr $INDEX + 1'
done
INDEX='expr $INDEX - 1' # don't include the null value

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# If we don't have four segments, return the old-style (or out of spec) package name:
if [ "$INDEX" = "2" -o "$INDEX" = "3" ]; then
echo $STRING
else # we have four or more segments, so we'll consider this a new-style name:
NAME='expr $INDEX - 3'
NAME="'echo $STRING | cut -f 1-$NAME -d -'"
echo $NAME
fi
fi
fi

} # cruft for later ;)
#VER='expr $INDEX - 2'
#VER="'echo $STRING | cut -f $VER -d -'"
#ARCH='expr $INDEX - 1'
#ARCH="'echo $STRING | cut -f $ARCH -d -'"
#BUILD='echo $STRING | cut -f $INDEX -d -'
fi
fi
fi

# Check and fix the old package name:
if [ ! -r $ROOT/var/log/packages/$OLD ]; then
SHORT="package_name $OLD"
if ls $ROOT/var/log/packages/$SHORT* 1> /dev/null 2> /dev/null ; then
for installed_package in $ROOT/var/log/packages/$SHORT* ; do
if [ "package_name $installed_package" = "$SHORT" ]; then # found one
OLD="basename $installed_package"
break
fi
done
fi
fi

# Test to see if both the old and new packages are where we expect them
# to be -- skip to the next package (or package pair) if anything's wrong:

if [ ! -r $ROOT/var/log/packages/$OLD ]; then
if [ ! "$INSTALL_NEW" = "yes" ]; then
echo "Error: there is no installed package named SOLD."
echo "(looking for $ROOT/var/log/packages/$OLD)"
echo
ERRCODE=1
else # --install-new was given, so install the new package:
cat << EOF
+==============================================================================
| Installing new package $INCOMINGDIR/$NEW.tgz
+==============================================================================
EOF

installpkg $INCOMINGDIR/$NEW.tgz
fi
shift 1
continue;
elif [ ! -r "$INCOMINGDIR/$NEW.tgz" ]; then
    echo
    echo "Error: incoming package $INCOMINGDIR/$NEW.tgz not found."
    echo
    shift 1
    ERRCODE=1
    continue;
fi

# Unless --reinstall was given, compare the package names
# and skip any exact matches:
if [ ! "$REINSTALL" = "true" ]; then
    if [ "$OLD" = "$NEW" ]; then
        cat << EOF
+==============================================================================
| Skipping package $NEW (already installed)
+==============================================================================
EOF
        shift 1
        continue;
    fi
fi

# Showtime. Let's do the upgrade. First, we will rename all the
# installed packages with this basename to make them easy to remove later:

TIMESTAMP=`date +%Y-%m-%d,%T`
SHORT="package_name $OLD"
for installed_package in $ROOT/var/log/packages/$SHORT* ; do
    if [ "package_name $installed_package" = "$SHORT" ]; then
        mv $installed_package ${installed_package}-upgraded-$TIMESTAMP
    fi
done
for installed_script in $ROOT/var/log/scripts/$SHORT* ; do
    if [ "package_name $installed_script" = "$SHORT" ]; then
        if [ -r $installed_script ]; then
            mv $installed_script ${installed_script}-upgraded-$TIMESTAMP
        fi
    fi
done

# Print a banner for the current upgrade:
cat << EOF
+==============================================================================
| Upgrading $OLD package using $INCOMINGDIR/$NEW.tgz
+==============================================================================
EOF

# Next, the new package is pre-installed:
if [ "$VERBOSE" = "verbose" ]; then
  installpkg $INCOMINGDIR/$NEW.tgz
else
echo "Pre-installing package $NEW..."
installpkg $INCOMINGDIR/$NEW.tgz 1>/dev/null
fi

# Now, the leftovers from the old package(s) can go. Pretty simple, huh? :)
if [ -d "$ROOT" ]; then
  ( cd $ROOT/var/log/packages
    for rempkg in *-$TIMESTAMP ; do
      if [ "$VERBOSE" = "verbose" ]; then
        ROOT=$ROOT removepkg $rempkg
      else
        ROOT=$ROOT removepkg $rempkg | grep -v "Skipping\." | grep -v "Removing files:"
      fi
done
  )
else
  ( cd /var/log/packages
    for rempkg in *-$TIMESTAMP ; do
      removepkg $rempkg | grep -v "Skipping\." | grep -v "Removing files:"
    fi
done
  )
fi
echo

# Again! Again!
# Seriously, the reinstalling of a package can be crucial if any files
# shift location, so we should always reinstall as the final step:
if [ ! "$NOT_PARANOID" = "true" ]; then
  installpkg $INCOMINGDIR/$NEW.tgz
fi

echo "Package $OLD upgraded with new package $INCOMINGDIR/$NEW.tgz."
ERRCODE=0

# Process next parameter:
shift 1

done

echo
exit $ERRCODE
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Written by John Gilmore and Jay Fenlason

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"license" : [
    "perl_5"
]

6.311 POE 1.35
6.311.1 Available under license :
from POE.pm

# Copyrights and documentation are after __END__.

<snip>

=head1 AUTHORS & COPYRIGHT

POE is the combined effort of quite a lot of people. This is an
incomplete list of some early contributors. A more complete list can
be found in POE's change log.

=over 2

=item Ann Barcomb

Ann Barcomb is <kudra@domaintje.com>, aka C<kudra>. Ann contributed
large portions of POE::Simple and the code that became the ReadWrite
support in POE::Component::Server::TCP. Her ideas also inspired
Client::TCP component, introduced in version 0.1702.

=item Artur Bergman

Artur Bergman is <sky@cpan.org>. He contributed many hours' work into
POE and quite a lot of ideas. Years later, I decide he's right and
actually implement them.
Artur is the author of Filter::HTTPD and Filter::Reference, as well as bits and pieces throughout POE. His feedback, testing, design and inspiration have been instrumental in making POE what it is today.

Artur is investing his time heavily into perl 5's iThreads and PONIE at the moment. This project has far-reaching implications for POE's future.

=item Jos Boumans

Jos Boumans is <kane@cpan.org>, aka C<kane>. Jos is a major driving force behind the POE::Simple movement and has helped inspire the POE::Components for TCP clients and servers.

=item Matt Cashner

Matt Cashner is <sungo@pobox.com>, aka C<sungo>. Matt is one of POE's core developers. He's spearheaded the movement to simplify POE for new users, flattening the learning curve and making the system more accessible to everyone. He uses the system in mission critical applications, folding feedback and features back into the distribution for everyone's enjoyment.

=item Andrew Chen

Andrew Chen is <achen-poe@micropixel.com>. Andrew is the resident POE/Windows guru. He contributes much needed testing for Solaris on the SPARC and Windows on various Intel platforms.

=item Douglas Couch

Douglas Couch is <dscouch@purdue.edu>. Douglas helped port and maintain POE for Windows early on.

=item Jeffrey Goff

Jeffrey Goff is <jgoff@blackboard.com>. Jeffrey is the author of several POE modules, including a tokenizing filter and a component for managing user information, PoCo::UserBase. He's also co-author of "A Beginner's Introduction to POE" at www.perl.com.

=item Philip Gwyn

Philip Gwyn is <gwynp@artware.qc.ca>. He extended the Wheels I/O abstraction to support hot-swappable filters, and he eventually convinced Rocco that unique session and kernel IDs were a good thing.
Philip also enhanced `POE::Filter::Reference` to support different serialization methods. He has also improved POE's quality by finding and fixing several bugs. He provided POE a much needed code review around version 0.06.

Lately, Philip tracked down the race condition in signal handling and fixed it with the signal pipe.

=item Arnar M. Hrafneksson

Arnar is <addi@umich.edu>. Addi tested POE and `POE::Component::IRC` on Windows, finding bugs and testing fixes. He appears throughout the Changes file. He has also written "cpoe", which is a POE-like library for C.

=item Dave Paris

Dave Paris is <dparis@w3works.com>. Dave tested and benchmarked POE around version 0.05, discovering some subtle (and not so subtle) timing problems. The pre-forking server sample was his idea. Versions 0.06 and later scaled to higher loads because of his work. He has contributed a lot of testing and feedback, much of which is tagged in the Changes file as a-mused. The man is scarily good at testing and troubleshooting.

=item Dieter Pearcey

Dieter Pearcey is <dieter@bullfrog.perlhacker.org>. He goes by several Japanese nicknames. Dieter's current area of expertise is in Wheels and Filters. He greatly improved `POE::Wheel::FollowTail`, and his Filter contributions include the basic Block filter, as well as Stackable, RecordBlock, Grep and Map.

=item Plixer International

Plixer International is at <http://plixer.com/>. Their sponsorship has helped POE 1.300 and beyond be significantly more robust using iThreads, especially when using fork() in Windows.

=item Robert Seifer

Robert Seifer is <e-mail unknown>. He rotates IRC nicknames regularly.

Robert contributed entirely too much time, both his own and his computers, towards the detection and eradication of a memory corruption bug that POE tickled in earlier Perl versions. In the end, his work produced a simple compile-time hack that worked around a problem relating to anonymous subs, scope and @{} processing.
Matt Sergeant

Matt contributed C<POE::Kernel::Poll>, a more efficient way to watch multiple files than select(). It's since been moved to L<POE::Loop::IO_Poll|POE::Loop::IO_Poll>.

Richard Soderberg

Richard Soderberg is <poe@crystalflame.net>, aka C<coral>. Richard is a collaborator on several side projects involving POE. His work provides valuable testing and feedback from a user's point of view.

Dennis Taylor

Dennis Taylor is <dennis@funkplanet.com>. Dennis has been testing, debugging and patching bits here and there, such as Filter::Line which he improved by leaps in 0.1102. He's also the author of L<POE::Component::IRC|POE::Component::IRC>, the widely popular POE-based successor to his wildly popular L<Net::IRC|Net::IRC> library.

David Davis

David Davis, aka Xantus is <xantus@cpan.org>. David contributed patches to the HTTPD filter, and added CALLER_STATE to L<POE::Session|POE::Session>. He is the author of L<Sprocket>, a networking framework built on POE.

Others?

Please contact the author if you've been forgotten and would like to be included here.

Z<TODO - This section has fallen into disrepair. A POE historian needs to cull the CHANGES for the names of major contributors.>

Rocco Caputo

Rocco Caputo is <rcaputo@cpan.org>. POE is his brainchild. He wishes to thank you for your interest, and he has more thanks than he can count for all the people who have contributed. POE would not be nearly as cool without you.
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=back

Thank you for reading!

=cut

# rocco // vim: ts=2 sw=2 expandtab
# TODO - Edit.
from /mylib/svn-log.perl

#!/usr/bin/env perl

# This program is Copyright 2005 by Rocco Caputo. All rights are reserved. This program is free software. It may be modified, used, and redistributed under the same terms as Perl itself.

# Generate a nice looking change log from the subversion logs for a Perl project. The log is also easy for machines to parse.

<snip>
from META.yml

---
abstract: 'Portable, event-loop agnostic eventy networking and multitasking.'
author:
  - 'Rocco Caputo <rcaputo@cpan.org>'
builtRequires:
  POE::Test::Loops: 1.350
configureRequires:
  Module::Build: 0.36
  POE::Test::Loops: 1.350
generatedBy: 'Module::Build version 0.3607'
license: perl
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: POE
noIndex:
directory:
  - mylib
  - t
provides:

POE:
  file: lib/POE.pm
  version: 1.350

POE::Component:
  file: lib/POE/Component.pm
  version: 1.350

POE::Component::Client::TCP:
  file: lib/POE/Component/Client/TCP.pm
  version: 1.350

POE::Component::Server::TCP:
  file: lib/POE/Component/Server/TCP.pm
  version: 1.350

POE::Driver:
  file: lib/POE/Driver.pm
  version: 1.350

POE::Driver::SysRW:
  file: lib/POE/Driver/SysRW.pm
  version: 1.350

POE::Filter:
  file: lib/POE/Filter.pm
  version: 1.350

POE::Filter::Block:
  file: lib/POE/Filter/Block.pm
  version: 1.350

POE::Filter::Grep:
  file: lib/POE/Filter/Grep.pm
  version: 1.350

POE::Filter::HTTPD:
  file: lib/POE/Filter/HTTPD.pm
  version: 1.350

POE::Filter::Line:
  file: lib/POE/Filter/Line.pm
  version: 1.350

POE::Filter::Map:
  file: lib/POE/Filter/Map.pm
  version: 1.350

POE::Filter::RecordBlock:
  file: lib/POE/Filter/RecordBlock.pm
  version: 1.350

POE::Filter::Reference:
  file: lib/POE/Filter/Reference.pm
  version: 1.350

POE::Filter::Stackable:
  file: lib/POE/Filter/Stackable.pm
  version: 1.350

POE::Filter::Stream:
  file: lib/POE/Filter/Stream.pm
version: 1.350
POE::Kernel:
  file: lib/POE/Kernel.pm
  version: 1.350
POE::Loop:
  file: lib/POE/Loop.pm
  version: 1.350
POE::Loop::IO_Poll:
  file: lib/POE/Loop/IO_Poll.pm
  version: 1.350
POE::Loop::PerlSignals:
  file: lib/POE/Loop/PerlSignals.pm
  version: 1.350
POE::Loop::Select:
  file: lib/POE/Loop/Select.pm
  version: 1.350
POE::NFA:
  file: lib/POE/NFA.pm
  version: 1.350
POE::Pipe:
  file: lib/POE/Pipe.pm
  version: 1.350
POE::Pipe::OneWay:
  file: lib/POE/Pipe/OneWay.pm
  version: 1.350
POE::Pipe::TwoWay:
  file: lib/POE/Pipe/TwoWay.pm
  version: 1.350
POE::Queue:
  file: lib/POE/Queue.pm
  version: 1.350
POE::Queue::Array:
  file: lib/POE/Queue/Array.pm
  version: 1.350
POE::Resource:
  file: lib/POE/Resource.pm
  version: 1.350
POE::Resource::Aliases:
  file: lib/POE/Resource/Aliases.pm
  version: 1.350
POE::Resource::Events:
  file: lib/POE/Resource/Events.pm
  version: 1.350
POE::Resource::Extrefs:
  file: lib/POE/Resource/Extrefs.pm
  version: 1.350
POE::Resource::FileHandles:
  file: lib/POE/Resource/FileHandles.pm
version: 1.350
POE::Resource::SIDs:
  file: lib/POE/Resource/SIDs.pm
  version: 1.350
POE::Resource::Sessions:
  file: lib/POE/Resource/Sessions.pm
  version: 1.350
POE::Resource::Signals:
  file: lib/POE/Resource/Signals.pm
  version: 1.350
POE::Resources:
  file: lib/POE/Resources.pm
  version: 1.350
POE::Session:
  file: lib/POE/Session.pm
  version: 1.350
POE::Wheel:
  file: lib/POE/Wheel.pm
  version: 1.350
POE::Wheel::Curses:
  file: lib/POE/Wheel/Curses.pm
  version: 1.350
POE::Wheel::FollowTail:
  file: lib/POE/Wheel/FollowTail.pm
  version: 1.350
POE::Wheel::ListenAccept:
  file: lib/POE/Wheel/ListenAccept.pm
  version: 1.350
POE::Wheel::ReadLine:
  file: lib/POE/Wheel/ReadLine.pm
  version: 1.350
POE::Wheel::ReadLine::Keymap:
  file: lib/POE/Wheel/ReadLine.pm
POE::Wheel::ReadWrite:
  file: lib/POE/Wheel/ReadWrite.pm
  version: 1.350
POE::Wheel::Run:
  file: lib/POE/Wheel/Run.pm
  version: 1.350
POE::Wheel::SocketFactory:
  file: lib/POE/Wheel/SocketFactory.pm
  version: 1.350
requires:
  Carp: 0
  Errno: 1.09
  Exporter: 0
  File::Spec: 0.87
  IO: 1.24
resources:
  homepage: http://poe.perl.org/
  license: http://dev.perl.org/licenses/
  repository: https://github.com/rcaputo/poe
  version: 1.350

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<signature of Ty Coon>, 1 April 1989
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6.312 POE-Test-Loops 1.35

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

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6.313 POE-XS-Queue-Array 0.0060

6.313.1 Available under license:

from Array.pm

<snip>

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=head1 AUTHOR

Tony Cook <tonyc@cpan.org>

=cut

From META.yml

--- #YAML:1.0
name:                POE-XS-Queue-Array
version:             0.006
abstract:            XS version of POE::Queue::Array
license:             perl
author:
  - Tony Cook <tonyc@cpan.org>
generated_by:        ExtUtils::MakeMaker version 6.42
distribution_type:   module
requires:
  POE:                           0.29
meta-spec:
  url:     http://module-build.sourceforge.net/META-spec-v1.3.html
  version: 1.3
From README

<snip>

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That's all there is to it!
6.314 portmap 6.0

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6.315 procps 3.2.8

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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**6.316 protobuf 2.6.1**

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  * Added generation of field number constants.
Wink Saville <wink@google.com>
  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
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  * 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.
Michael Kucharski <m.kucharski@gmail.com>
  * Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
  * Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
  * Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris

6.317 protobuf-c 1.3.0
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6.318 psmisc 22.6

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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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*******************
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*******************

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

Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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All Python releases are Open Source (see https://opensource.org/ for the Open
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Mersenne Twister
----------------

The :mod:`_random` module includes code based on a download from
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------
The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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Asynchronous socket services
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion 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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SipHash24
---------

The file :file:`Python/pyhash.c` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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```

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
---------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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zlib
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jloup@gzip.org          madler@alumni.caltech.edu

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-------
The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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6.321 Python 2.7.15 2.7.15

6.321.1 Available under license :

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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
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 :func:`init_genrand` or :func:`init_by_array`. (init_key, key_length).

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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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Floating point exception control
--------------------------------

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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
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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.

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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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version is still 5 times faster, though.
- Arguments more compliant with Python standard

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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<td>PSF</td>
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6.323 readline 5.2

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6.325 Return-Value 1.666001

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6.326 rpm 4.13.1

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

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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That's all there is to it!

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Tuc <ttsg with ttsg.com>
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Wegmann, Christof <Christof.Wegmann@exitgames.com> 1.3/trunk win32 port
$Id$
RRDTOOL - Round Robin Database Tool
A tool for fast logging of numerical data graphical display of this data.

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6.331 Scalar-List-Utils 1.33

6.332 Schedule-Cron 0.99

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from /lib/Schedule/Cron.pm

<snip>

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... roland

=cut

1;
From META.yml

---
name: Schedule-Cron
version: 0.99
author:
  - Roland Huss (roland@cpan.org)
abstract: cron-like scheduler for Perl subroutines
license: perl
resources:
  license: http://dev.perl.org/licenses/
build_requires:
  Test: 0
  Test::More: 0
requires:
  Data::Dumper: 0
  Time::ParseDate: 99.00
recommends:
  Module::Build: 0
  ioctl.ph: 0
  sys::ioctl.ph: 0
configure_requires:
  Module::Build: 0.34
provides:
  Schedule::Cron:
    file: lib/Schedule/Cron.pm
    version: 0.99
generated_by: Module::Build version 0.34
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
From README

<snip>

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6.333 scrub 2.2
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6.335 Set-Crontab 1.02
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From Crontab.pm

<snip>

=head1 AUTHOR

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

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6.338 setuptools 19.6.2
6.338.1 Available under license :
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 */

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vipw, vigr  edit the password or group file
with -s will edit shadow or gshadow file

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SMTPclient -- simple SMTP client

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Socket6.pm and Socket6.xs are based on perl5.005_55-v6-19990721 written by KAME Project.

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from /t/forgive.t
==============

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#
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from README
==============

Storable 2.14
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The Storable extension brings persistency to your data.

You may recursively store to disk any data structure, no matter how complex and circular it is, provided it contains only SCALAR, ARRAY, HASH (possibly tied) and references (possibly blessed) to those items.

At a later stage, or in another program, you may retrieve data from the stored file and recreate the same hierarchy in memory. If you had blessed references, the retrieved references are blessed into the same package, so you must make sure you have access to the same perl class than the one used to create the relevant objects.

There is also a dclone() routine which performs an optimized mirroring of any data structure, preserving its topology.

Objects (blessed references) may also redefine the way storage and retrieval is performed, and/or what deep cloning should do on those objects.

To compile this extension, run:

    perl Makefile.PL [PERL_SRC=...where you put perl sources...]
    make
    make install

There is an embedded POD manual page in Storable.pm.

Storable was written by Raphael Manfredi <Raphael_Manfredi@pobox.com>
Maintenance is now done by the perl5-porters <perl5-porters@perl.org>

Please e-mail us with problems, bug fixes, comments and complaints, although if you have complements you should send them to Raphael. Please don’t e-mail Raphael with problems, as he no longer works on Storable, and your message will be delayed while he forwards it to us.

Thanks to (in chronological order):
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Justin Banks <justinb@wannet.com>
Jarkko Hietaniemi <jhi@iki.fi> (AGAIN, as perl 5.7.0 Pumpkin!)

for their contributions.

A Japanese translation of this man page is available at the Japanized Perl Resources Project <https://sourceforge.jp/projects/perldocjp/>.

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

The perl5-porters would like to thank

    Raphael Manfredi <Raphael_Manfredi@pobox.com>

According to the perl5.8 Changes file, the following people have helped bring you this Storable release:

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6.354 sudo 1.8.21p2
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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—-if you believe you should be listed, please send a note to sudo@sudo.ws.

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Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
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Bostley, P.J.
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Coleman, Chris
Corzine, Deven T.
Cusack, Frank
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Fobes, Steve
Fryisinger, Mike
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Kopeek, Daniel
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Larsen, Case
Levin, Dmitry V.
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Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
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Marchionna, Michael D.
Markham, Paul
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Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
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Nieuwma, Jeff
Nikitser, Peter A.
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Pickett, Joel
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de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
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6.358 Sys-Syslog 0.32
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---
abstract: 'Perl interface to the UNIX syslog(3) calls'
author:
- 'Sebastien Aperghis-Tramoni <sebastien@aperghis.net>'
buildRequires:
  ExtUtils::MakeMaker: 0
configureRequires:
  ExtUtils::MakeMaker: 0
dynamicConfig: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: perl
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Sys-Syslog
noIndex:
directory:
  - t
  - inc
requires:
  Carp: 0
  File::Basename: 0
NAME

Sys::Syslog - Perl interface to the UNIX syslog(3) calls

DESCRIPTION

Sys::Syslog is an interface to the UNIX syslog(3) program. Call syslog() with a string priority and a list of printf() args just like syslog(3).

INSTALLATION

To install this module, run the following commands:

$ perl Makefile.PL
$ make
$ make test
$ make install

An ANSI-compliant compiler is required to compile the extension.

Sys::Syslog should work on any Perl since 5.6.0. This module is regularly compiled and tested by the CPAN Testers on various combinations of Perl and operating systems.

See also the corresponding CPAN Testers page:
http://testers.cpan.org/show/Sys-Syslog.html

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

perldoc Sys::Syslog

You can also look for information at:
Search CPAN
  http://search.cpan.org/dist/Sys-Syslog/

MetaCPAN
  https://metacpan.org/module/Sys::Syslog

CPAN Request Tracker:
  http://rt.cpan.org/NoAuth/Bugs.html?Dist=Sys-Syslog

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  http://annocpan.org/dist/Sys-Syslog

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6.359 sysfsutils 2.1.0

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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6.363 tar 1.32
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*/

/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config

/****************** System dependant compilation flags ******************/

/*
* POSIX	This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS	This system supports the optional IEEE Std 1003.1-1988 (POSIX)
* job control facilities.
*/
#undef POSIXJOBS

/*
* VFORK	This machine has a vfork().
* It used to be that for job control to work, this define
* was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
* I do this anyway on a Sun because of yellow pages brain damage,
* [should not be needed under 4.1]
* and on the iris4d cause SGI's fork is sufficiently "virtual"
* that vfork isn't necessary. (Besides, SGI's vfork is weird).
* Note that some machines eg. rs6000 have a vfork, but not
* with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
* BSDJOBS	You have BSD-style job control (both process groups and
* a tty that deals correctly
*/
#define BSDJOBS

/*
 * BSDTIMES You have BSD-style process time stuff (like rusage)
 * This may or may not be true. For example, Apple Unix
 * (OREO) has BSDJOBS but not BSDTIMES.
 */
#define BSDTIMES

/*
 * BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
 */
#define BSDLIMIT

/*
 * TERMIO You have struct termio instead of struct sgttyb.
 * This is usually the case for SYSV systems, where
 * BSD uses sgttyb. POSIX systems should define this
 * anyway, even though they use struct termios.
 */
#undef TERMIO

/*
 * SYSVREL Your machine is SYSV based (HPUX, A/UX)
 * NOTE: don't do this if you are on a Pyramid -- tcsh is
 * built in a BSD universe.
 * Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
 * you are running. Or set it to 0 if you are not SYSV based
 */
#define SYSVREL 0

/*
 * YPBUGS Work around Sun YP bugs that cause expansion of ~username
 * to send command output to /dev/null
 */
#undef YPBUGS

/******************** local defines **********************/

#endif /* _h_config */

6.367 telnet-OpenBSD 2.0020321E7
6.367.1 Available under license:

"OpenBSD: telnet.1,v 1.28 2001/06/23 22:14:27 hin Exp $" 
"NetBSD: telnet.1,v 1.5 1996/02/28 21:04:12 thorpej Exp $"

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"from: @(telnet.18.4 (Berkeley) 2/3/94

Dd February 3, 1994
Dt TELNET 1
Os
Sh NAME
Nm telnet
Nd user interface to the
Tn TELNET protocol
Sh SYNOPSIS
Nm telnet
Op Fl 8EFKLacdfrx
DESCRIPTION

The `telnet` command is used to communicate with another host using the TELNET protocol.

If `telnet` is invoked without the `host` argument, it enters command mode, indicated by its prompt `telnet\&>`.

In this mode, it accepts and executes the commands listed below. If it is invoked with arguments, it performs an open command with those arguments.

The options are as follows:

- `-tag -width Ds`
  Specifies an 8-bit data path.
  This causes an attempt to negotiate the TELNET BINARY option on both input and output.

- `-E`
  Stops any character from being recognized as an escape character.

- `-F`
  If Kerberos 5 authentication is being used, the `F` option allows the local credentials to be forwarded to the remote system, including any credentials that have already been forwarded into the local environment.

- `-K`
  Specifies no automatic login to the remote system.

- `-L`
  Specifies an 8-bit data path on output.
This causes the BINARY option to be negotiated on output.

- It Fl X Ar atype
  Disables the
  Ar atype
  type of authentication.
- It Fl a
  Attempt automatic login.
  Currently, this sends the user name via the
  .Ev USER
  variable
  of the
  .Ev ENVIRON
  option if supported by the remote system.
  The name used is that of the current user as returned by
  .Xr getlogin 2
  if it agrees with the current user ID,
  otherwise it is the name associated with the user ID.
- It Fl b Ar hostalias
  Uses
  .Xr bind 2
  on the local socket to bind it to an aliased address (see
  .Xr ifconfig 8
  and the "alias" specifier) or to the address of
  another interface than the one naturally chosen by
  .Xr connect 2 .
  This can be useful when connecting to services which use IP addresses
  for authentication and reconfiguration of the server is undesirable (or
  impossible).
- It Fl c
  Disables the reading of the user's
  .Pa \&.telnetrc
  file.
  (See the
  .Ic toggle skiprc
  command on this man page.)
- It Fl d
  Sets the initial value of the
  .Ic debug
  toggle to
  .Dv TRUE .
- It Fl e Ar escapechar
  Sets the initial
  .Nm
  escape character to
  .Ar escapechar Ns .
  If
  .Ar escapechar
  is omitted, then
there will be no escape character.

If Kerberos 5 authentication is being used, the
option allows the local credentials to be forwarded to the remote system.

If Kerberos authentication is being used, the
option requests that
obtain tickets for the remote host in
realm
instead of the remote host's realm, as determined
by

When connecting to the remote system, if the remote system understands the
option, then
will be sent to the remote system as the value for the variable USER.
This option implies the
option.
This option may also be used with the
command.
Opens
for recording trace information.
See the
command below.
Specifies a user interface similar to
In this
mode, the escape character is set to the tilde (~) character,
unless modified by the
option.
Turns on encryption of the data stream if Kerberos is used.
Indicates the official name, an alias, or the Internet address
of a remote host.

Indicates a port number (address of an application).
If a number is not specified, the default
port is used.

When in rlogin mode, a line of the form ~
disconnects from the
remote host; ~ is the telnet escape character.
Similarly, the line ~^Z suspends the telnet session.
The line ~^[ escapes to the normal telnet escape prompt.

Once a connection has been opened,
will attempt to enable the
TELNET LINEMODE option.
If this fails,
will revert to one of two input modes:
either "character at a time"
or "old line by line"
depending on what the remote system supports.

When
is enabled, character processing is done on the
local system, under the control of the remote system.
When input
editing or character echoing is to be disabled, the remote system
will relay that information.
The remote system will also relay
changes to any special characters that happen on the remote
system, so that they can take effect on the local system.

In "character at a time" mode, most
text typed is immediately sent to the remote host for processing.
In "old line by line" mode, all text is echoed locally,
and (normally) only completed lines are sent to the remote host.
The "local echo character" (initially "^E") may be used
to turn off and on the local echo
(this would mostly be used to enter passwords
without the password being echoed).
option is enabled, or if the localchars toggle is TRUE (the default for "old line by line"; see below), the user's quit, intr, and flush characters are trapped locally, and sent as TELNET protocol sequences to the remote side. If LINEMODE has ever been enabled, then the user's susp and eof are also sent as TELNET protocol sequences, and quit is sent as a TELNET ABORT instead of BREAK. There are options (see toggle autofocus and toggle autosynch below) which cause this action to flush subsequent output to the terminal (until the remote host acknowledges the TELNET sequence) and flush previous terminal input (in the case of quit and intr). While connected to a remote host, command mode may be entered by typing the
"escape character" (initially "\["\)).
When in command mode, the normal terminal editing conventions are available.
Note that the escape character will return to the command mode of the initial
 invocation of
that has the controlling terminal.
Use the
command to switch to command mode in subsequent
processes on remote hosts.
The following
commands are available.
Only enough of each command to uniquely identify it need be typed
(this is also true for arguments to the
commands).

The
command manipulates the information sent through the
option.
Valid arguments for the
command are as follows:

Disables the specified
type of authentication.
To obtain a list of available types, use the
classic command.
Enables the specified
 type
of authentication.
To obtain a list of available types, use the
.Ic auth enable \&?
command.
.Ic status
Lists the current status of the various types of
authentication.
.El
.Ic close
Close a
.Tn TELNET
session and return to command mode.
.Ic display Ar argument Op Ar ...
Displays all, or some, of the
.Ic set
and
.Ic toggle
values (see below).
.Ic encrypt Ar argument Op Ar ...
The
.Ic encrypt
command manipulates the information sent through the
.Dv TELNET ENCRYPT
option that's available when Kerberos is used.
.Pp
Valid arguments for the encrypt command are as follows:
.Bl -tag -width Ar
.Ic disable Ar type Ic [input|output]
Disables the specified
.Ar type
of encryption.
If you omit
.Ic input
and
.Ic output ,
both input and output
are disabled.
To obtain a list of available types, use the
.Ic encrypt disable \&?
command.
.Ic enable Ar type Ic [input|output]
Enables the specified
.Ar type
of encryption.
If you omit
.Ic input
and
.Ic output ,
both input and output are enabled.
To obtain a list of available types, use the .IC encrypt enable \\&? command.
.Ic input
This is the same as the .IC encrypt start input command.
.Ic -input
This is the same as the .IC encrypt stop input command.
.Ic output
This is the same as the .IC encrypt start output command.
.Ic -output
This is the same as the .IC encrypt stop output command.
.Ic start IC [input|output]
Attempts to start encryption.
If you omit .IC input and .IC output , both input and output are enabled.
To obtain a list of available types, use the .IC encrypt enable \\&? command.
.Ic status
Lists the current status of encryption.
.Ic stop IC [input|output]
Stops encryption.
If you omit .IC input and .IC output , encryption is on both input and output.
.Ic type IC type
Sets the default type of encryption to be used with later .IC encrypt start commands.
.El
The `envir0n` command is used to manipulate the variables that may be sent through the `TELNET ENVIRON` option. The initial set of variables is taken from the users environment, with only the `DISPLAY` and `PRINTER` variables being exported by default. The `USER` variable is also exported if the `a` or `l` options are used.

Valid arguments for the `envir0n` command are:

- `define variable value` Define the variable `variable` to have a value of `value`. Any variables defined by this command are automatically exported.
- `value` may be enclosed in single or double quotes so that tabs and spaces may be included.
- `undefine variable` Remove `variable` from the list of environment variables.
- `export variable` Mark the variable `variable` to be exported to the remote side.
- `unexport variable` Mark the variable `variable` to not be exported unless explicitly asked for by the remote side.
.It lc list
List the current set of environment variables.
Those marked with a
.Cm *
will be sent automatically,
other variables will only be sent if explicitly requested.
.It lc \\&?
Prints out help information for the
.lc environ
command.
.El
.It lc logout
Sends the
.Dv TELNET LOGOUT
option to the remote side.
This command is similar to a
.lc close
command; however, if the remote side does not support the
.Dv LOGOUT
option, nothing happens.
If, however, the remote side does support the
.Dv LOGOUT
option, this command should cause the remote side to close the
.Tn TELNET
connection.
If the remote side also supports the concept of
suspending a user's session for later reattachment,
the logout argument indicates that you
should terminate the session immediately.
.It lc mode Ar type
.Ar type
is one of several options, depending on the state of the
.Tn TELNET
session.
The remote host is asked for permission to go into the requested mode.
If the remote host is capable of entering that mode, the requested
mode will be entered.
.Bl -tag -width Ar
.It lc character
Disable the
.Dv TELNET LINEMODE
option, or, if the remote side does not understand the
.Dv LINEMODE
option, then enter "character at a time" mode.
.It lc line
Enable the
.Dv TELNET LINEMODE
option, or, if the remote side does not understand the
.Dv LINEMODE
option, then attempt to enter "old-line-by-line" mode.
. It Ic isig Pq Ic \-isig
Attempt to enable (disable) the
.Dv TRAPSIG
mode of the
.Dv LINEMODE
option.
This requires that the
.Dv LINEMODE
option be enabled.
. It Ic edit Pq Ic \-edit
Attempt to enable (disable) the
.Dv EDIT
mode of the
.Dv LINEMODE
option.
This requires that the
.Dv LINEMODE
option be enabled.
. It Ic softtabs Pq Ic \-softtabs
Attempt to enable (disable) the
.Dv SOFT_TAB
mode of the
.Dv LINEMODE
option.
This requires that the
.Dv LINEMODE
option be enabled.
. It Ic litecho Pq Ic \-litecho
Attempt to enable (disable) the
.Dv LIT_ECHO
mode of the
.Dv LINEMODE
option.
This requires that the
.Dv LINEMODE
option be enabled.
. It Ic \&&?
Prints out help information for the
.Ic mode
command.
. El
. It Xo
.Ic open Ar host
.Op Fl l Ar user
.Oo Op Fl
.Ar port Oc
Open a connection to the named host. If no port number is specified, will attempt to contact a TELNET server at the default port. The host specification may be either a host name (see hosts 5) or an Internet address specified in the "dot notation" (see inet 3). The option may be used to specify the user name to be passed to the remote system via the ENVIRON option. When connecting to a non-standard port, omits any automatic initiation of TELNET options. When the port number is preceded by a minus sign, the initial option negotiation is done. After establishing a connection, the file .telnetrc in the user's home directory is opened. Lines beginning with a "#" are comment lines. Blank lines are ignored. Lines that begin without whitespace are the start of a machine entry. The first thing on the line is the name of the machine that is being connected to. The rest of the line, and successive lines that begin with whitespace are assumed to be commands and are processed as if they had been typed in manually to the command prompt. Close any open TELNET session and exit.
An end-of-file (in command mode) will also close a session and exit.
.It Ic send Ar arguments
Sends one or more special character sequences to the remote host.
The following are the arguments which may be specified
(more than one argument may be specified at a time):
.BL -tag -width escape
 .It Ic abort
     Sends the
 .Dv TELNET ABORT
     (Abort
     processes)
     sequence.
 .It Ic ao
     Sends the
 .Dv TELNET AO
     (Abort Output) sequence, which should cause the remote system to flush
     all output
     .Em from
     the remote system
     .Em to
     the user's terminal.
 .It Ic ayt
     Sends the
 .Dv TELNET AYT
     (Are You There)
     sequence, to which the remote system may or may not choose to respond.
 .It Ic brk
     Sends the
 .Dv TELNET BRK
     (Break) sequence, which may have significance to the remote
     system.
 .It Ic ec
     Sends the
 .Dv TELNET EC
     (Erase Character)
     sequence, which should cause the remote system to erase the last character
     entered.
 .It Ic el
     Sends the
 .Dv TELNET EL
     (Erase Line)
     sequence, which should cause the remote system to erase the line currently
     being entered.
 .It Ic eof
     Sends the
 .Dv TELNET EOF
     (End Of File)
     sequence.
It lce cor
Sends the
.Dv TELNET EOR
(End of Record)
sequence.
It lce escape
Sends the current
.Nm escape character (initially "^J").
It lce ga
Sends the
.Dv TELNET GA
(Go Ahead)
sequence, which likely has no significance to the remote system.
It lce getstatus
If the remote side supports the
.Dv TELNET STATUS
command,
.It lce getstatus
will send the subnegotiation to request that the server send
its current option status.
It lce ip
Sends the
.Dv TELNET IP
(Interrupt Process) sequence, which should cause the remote
system to abort the currently running process.
It lce nop
Sends the
.Dv TELNET NOP
(No OPeration)
sequence.
It lce susp
Sends the
.Dv TELNET SUSP
(SUSPend process)
sequence.
It lce synch
Sends the
.Dv TELNET SYNCH
sequence.
This sequence causes the remote system to discard all previously typed
(but not yet read) input.
This sequence is sent as
.Tn TCP
urgent
data (and may not work if the remote system is a
.Bx 4.2
system -- if
it doesn't work, a lower case "r" may be echoed on the terminal).

. It Ic do Ar cmd
Sends the
. Dv TELNET DO
. Ar cmd
sequence.
. Ar cmd
can be either a decimal number between 0 and 255,
or a symbolic name for a specific
. Dv TELNET
command.
. Ar cmd
can also be either
. Ic help
or
. Ic \\&?
to print out help information, including
a list of known symbolic names.
. It Ic dont Ar cmd
Sends the
. Dv TELNET DONT
. Ar cmd
sequence.
. Ar cmd
can be either a decimal number between 0 and 255,
or a symbolic name for a specific
. Dv TELNET
command.
. Ar cmd
can also be either
. Ic help
or
. Ic \\&?
to print out help information, including
a list of known symbolic names.
. It Ic will Ar cmd
Sends the
. Dv TELNET WILL
. Ar cmd
sequence.
. Ar cmd
can be either a decimal number between 0 and 255,
or a symbolic name for a specific
. Dv TELNET
command.
. Ar cmd
can also be either
. Ic help
or
.ic \\&?

to print out help information, including
a list of known symbolic names.
.it ic wont ar cmd
Sends the
.dv telnet wont
.ar cmd
sequence.
.ar cmd
can be either a decimal number between 0 and 255,
or a symbolic name for a specific
.dv telnet
command.
.ar cmd
can also be either
.ic help
or
.ic \\&?

to print out help information, including
a list of known symbolic names.
.it ic \\&?
Prints out help information for the
.ic send
command.
.el
.it ic set ar argument value
.it ic unset ar argument value
The
.ic set
command will set any one of a number of
.nm
variables to a specific value or to
.dv true.
The special value
.ic off
turns off the function associated with
the variable; this is equivalent to using the
.ic unset
command.
The
.ic unset
command will disable or set to
.dv false
any of the specified functions.
The values of variables may be interrogated with the
.ic display
command.
The variables which may be set or unset, but not toggled, are listed here. In addition, any of the variables for the .ic toggle command may be explicitly set or unset using the .ic set and .ic unset commands.

. Bl -tag -width escape
 .It .ic ayt
 If .Tn TELNET is in .ic localchars mode, or .Dv LINEMODE is enabled, and the status character is typed, a .Dv TELNET AYT sequence (see .ic send ayt preceding) is sent to the remote host.

The initial value for the "Are You There" character is the terminal's status character.

. It .ic echo
This is the value (initially "^E") which, when in "line by line" mode, toggles between doing local echoing of entered characters (for normal processing), and suppressing echoing of entered characters (for entering, say, a password).

. It .ic eof
If .Nm is operating in .Dv LINEMODE or "old line by line" mode, entering this character as the first character on a line will cause this character to be sent to the remote system.

The initial value of the .ic eof character is taken to be the terminal's .ic eof character.

. It .ic erase
If .Nm is in
.. localchars
mode (see
.. toggle
.. localchars
below),
and if
..Nm
is operating in "character at a time" mode, then when this
class character is typed, a
.. Dv TELNET EC
sequence (see
.. Ic send
.. Ic ec
above)
is sent to the remote system.
The initial value for the
.. Ic erase
class character is taken to be
the terminal's
.. Ic erase
class.
.. Ic escape
This is the
.. Ic escape
class (initially "^[]") which causes entry
into
.. Ic flushoutput
command mode (when connected to a remote system).
.. Ic flushoutput
If
.. Ic flushoutput
is in
.. localchars
mode (see
.. toggle
.. localchars
below)
and the
.. Ic flushoutput
class is typed, a
.. Dv TELNET AO
sequence (see
.. Ic send
.. Ic ao
above)
is sent to the remote host.
The initial value for the
.. Ic flush
character is taken to be
the terminal's
flush
character.
If
TELNET
is operating in
LINEMODE,
these are the
characters that, when typed, cause partial lines to be
forwarded to the remote system.
The initial value for
the forwarding characters are taken from the terminal's
eol and eol2 characters.
If interrupt
If
is in
localchars
mode (see
toggle
tlocalchars
below)
and the
interrupt character is typed, a
TELNET IP
sequence (see
send
ip
above)
is sent to the remote host.
The initial value for the
interrupt character is taken to be
the terminal's
intr
character.
If kill
If
is in
localchars
mode (see
toggle
tlocalchars
below),
and if
.Nm
is operating in "character at a time" mode, then when this
color character is typed, a
.Dv TELNET EL
sequence (see
.Ic send
.Ic el
above)
is sent to the remote system.
The initial value for the
.Ic kill
color character is taken to be
the terminal's
.Ic kill
color character.
.Ic lnext
If
.Nm
is operating in
.Dv LINEMODE
or "old line by line" mode, then this character is taken to
be the terminal's
.Ic lnext
color character.
The initial value for the
.Ic lnext
color character is taken to be
the terminal's
.Ic lnext
color character.
.Ic quit
If
.Nm
is in
.Ic localchars
mode (see
.Ic toggle
.Ic localchars
below)
and the
.Ic quit
color character is typed, a
.Dv TELNET BRK
sequence (see
.Ic send
.Ic brk
above) is sent to the remote host.
The initial value for the
.ic quit
character is taken to be
the terminal's
.ic quit
character.
.it ic reprint
If
.nm
is operating in
.dv LINEMODE
or old line by line" mode, then this character is taken to
be the terminal's
.ic reprint
character.
The initial value for the
.ic reprint
character is taken to be
the terminal's
.ic reprint
character.
.it ic rlogin
This is the rlogin escape character.
If set, the normal
.tn TELNET
escape character is ignored unless it is
preceded by this character at the beginning of a line.
This character, at the beginning of a line, followed by
a "." closes the connection; when followed by a ^Z it
suspends the
.nm
command.
The initial state is to
disable the
.ic rlogin
escape character.
.it ic start
If the
.dv TELNET TOGGLE-FLOW-CONTROL
option has been enabled,
then this character is taken to
be the terminal's
.ic start
character.
The initial value for the
.ic start
character is taken to be
the terminal's
.Ic start
character.
.It Ic stop
If the
.Dv TELNET TOGGLE-FLOW-CONTROL
option has been enabled,
then this character is taken to
be the terminal's
.Ic stop
character.
The initial value for the
.Ic stop
character is taken to be
the terminal's
.Ic stop
character.
.It Ic susp
If
.Nm
is in
.Ic localchars
mode, or
.Dv LINEMODE
is enabled, and the
.Ic suspend
character is typed, a
.Dv TELNET SUSP
sequence (see
.Ic send
.Ic susp
above)
is sent to the remote host.
The initial value for the
.Ic suspend
character is taken to be
the terminal's
.Ic suspend
character.
.It Ic tracefile
This is the file to which the output, caused by
.Ic netdata
or
.Ic option
tracing being
.Dv TRUE ,
will be written.
If it is set to .Dq Fl,
then tracing information will be written to standard output (the default).

If .Nm
is operating in .Dv LINEMODE
or "old line by line" mode, then this character is taken to be the terminal's .Ic worderase character.
The initial value for the .Ic worderase character is taken to be the terminal's .Ic worderase character.

. It Ic \\&?
Displays the legal .Ic set .Pq Ic unset commands.

.EI
. It Ic skey Ar sequence challenge
The .Ic skey command computes a response to the S/Key challenge.
See .Xr skey 1 for more information on the S/Key system.

. It Ic slc Ar state
The .Ic slc command (Set Local Characters) is used to set or change the state of the special characters when the .Dv TELNET LINEMODE option has been enabled.

Special characters are characters that get mapped to .Tn TELNET commands sequences (like .Ic ip or .Ic quit ) or line editing characters (like .Ic erase
By default, the local special characters are exported.
Verify the current settings for the current special characters. The remote side is requested to send all the current special character settings, and if there are any discrepancies with the local side, the local side will switch to the remote value.
Switch to the local defaults for the special characters. The local default characters are those of the local terminal at the time when the telnet was started.
Switch to the remote defaults for the special characters. The remote default characters are those of the remote system at the time when the TELNET connection was established.
Prints out help information for the slc command.
Show the current status of the telnet.
This includes the peer one is connected to, as well as the current mode.
Toggle (between TRUE and FALSE) various flags that control how telnet responds to events. These flags may be set explicitly to TRUE or FALSE using the slc set and unset commands listed above.
More than one argument may be specified.  
The state of these flags may be interrogated with the  
.Ic display  
command.  
Valid arguments are:  
.BL -tag -width Ar  
.It Ic authdebug  
Turns on debugging information for the authentication code.  
.It Ic autoflush  
If  
.Ic autoflush  
and  
.Ic localchars  
are both  
.Dv TRUE ,  
then when the  
.Ic ao  
or  
.Ic quit  
characters are recognized (and transformed into  
.Tn TELNET  
sequences; see  
.Ic set  
above for details),  
.Nm  
refuses to display any data on the user's terminal  
until the remote system acknowledges (via a  
.Dv TELNET TIMING MARK  
option)  
that it has processed those  
.Tn TELNET  
sequences.  
The initial value for this toggle is  
.Dv TRUE  
if the terminal user had not  
done an "stty noflsh", otherwise  
.Dv FALSE  
(see  
.Xr stty 1 ).  
.It Ic autodecrypt  
When the  
.Dv TELNET ENCRYPT  
option is negotiated, by  
default the actual encryption (decryption) of the data  
stream does not start automatically.  
The  
.Ic autoencrypt  
.Pq Ic autodecrypt
command states that encryption of the output (input) stream should be enabled as soon as possible.

.Pp

.It 1c autologin

If the remote side supports the

.Dv TELNET AUTHENTICATION option

.Tn TELNET attempts to use it to perform automatic authentication.

If the

.Dv AUTHENTICATION option is not supported, the user's login name are propagated through the

.Dv TELNET ENVIRON option.

This command is the same as specifying

.Ar a option on the

.Ic open command.

.It 1c autosynch

If

.Ic autosynch and

.Ic localchars are both

.Dv TRUE, then when either the

.Ic intr or

.Ic quit character is typed (see

.Ic set above for descriptions of the

.Ic intr and

.Ic quit characters), the resulting

.Tn TELNET sequence sent is followed by the

.Dv TELNET SYNCH sequence.

This procedure

.Em should cause the remote system to begin throwing away all previously typed input until both of the

.Tn TELNET
sequences have been read and acted upon.
The initial value of this toggle is
\texttt{.Dv FALSE .}
\texttt{.It 1c binary}
Enable or disable the
\texttt{.Dv TELNET BINARY}
option on both input and output.
\texttt{.It 1c inbinary}
Enable or disable the
\texttt{.Dv TELNET BINARY}
option on input.
\texttt{.It 1c outbinary}
Enable or disable the
\texttt{.Dv TELNET BINARY}
option on output.
\texttt{.It 1c crlf}
If this is
\texttt{.Dv TRUE ,}
then carriage returns will be sent as
\texttt{.Li <CR><LF> .}
If this is
\texttt{.Dv FALSE ,}
then carriage returns will be send as
\texttt{.Li <CR><NUL> .}
The initial value for this toggle is
\texttt{.Dv FALSE .}
\texttt{.It 1c crmod}
Toggle carriage return mode.
When this mode is enabled, most carriage return characters received from
the remote host will be mapped into a carriage return followed by
a line feed.
This mode does not affect those characters typed by the user, only
those received from the remote host.
This mode is not very useful unless the remote host
only sends carriage return, but never line feeds.
The initial value for this toggle is
\texttt{.Dv FALSE .}
\texttt{.It 1c debug}
Toggles socket level debugging (useful only to the superuser).
The initial value for this toggle is
\texttt{.Dv FALSE .}
\texttt{.It 1c encdebug}
Turns on debugging information for the encryption code.
\texttt{.It 1c localchars}
If this is
\texttt{.Dv TRUE ,}
then the
\texttt{.1c flush ,}
.Ic interrupt ,
.Ic quit ,
.Ic erase ,
and
.Ic kill
characters (see
.Ic set
above) are recognized locally, and transformed into (hopefully) appropriate
.Tn TELNET
control sequences
(respectively
.Ic ao ,
.Ic ip ,
.Ic brk ,
.Ic ec ,
and
.Ic el ;
see
.Ic send
above).
The initial value for this toggle is
.Dv TRUE
in "old line by line" mode,
and
.Dv FALSE
in "character at a time" mode.
When the
.Dv LINEMODE
option is enabled, the value of
.Ic localchars
is ignored, and assumed to always be
.Dv TRUE .
If
.Dv LINEMODE
has ever been enabled, then
.Ic quit
is sent as
.Ic abort ,
and
.Ic eof
and
.Ic suspend
are sent as
.Ic eof
and
.Ic susp
(see
.Ic send
above).

**.It Ic netdata**
Toggles the display of all network data (in hexadecimal format).
The initial value for this toggle is
**.Dv FALSE**.

**.It Ic options**
Toggles the display of some internal
**.Nm**
protocol processing (having to do with
**.Tn TELNET**
options).
The initial value for this toggle is
**.Dv FALSE**.

**.It Ic prettydump**
When the
**.Ic netdata**
toggle is enabled, if
**.Ic prettydump**
is enabled the output from the
**.Ic netdata**
command will be formatted in a more user readable format.
Spaces are put between each character in the output, and the
beginning of any
**.Tn TELNET**
escape sequence is preceded by a "*" to aid in locating them.

**.It Ic skiprc**
When the skiprc toggle is
**.Dv TRUE**,
**.Tn TELNET**
skips the reading of the
**.Pa \.&.telnetrc**
file in the user's home
directory when connections are opened.
The initial value for this toggle is
**.Dv FALSE**.

**.It Ic termdata**
Toggles the display of all terminal data (in hexadecimal format).
The initial value for this toggle is
**.Dv FALSE**.

**.It Ic verbose_encrypt**
When the
**.Ic verbose_encrypt**
toggle is
**.Dv TRUE**,
**.Nm**
prints out a message each time encryption is enabled or
disabled.
The initial value for this toggle is
Displays the legal toggle commands.

Suspend

This command only works when the user is using the csh 1 command

Execute a single command in a subshell on the local system.

If

is omitted, then an interactive subshell is invoked.

Get help.

With no arguments, prints a help summary.

If a command is specified, will print the help information for just that command.

ENVIRONMENT uses at least the HOME, SHELL, DISPLAY, and TERM environment variables. Other environment variables may be propagated to the other side via the TELNET ENVIRON option.

FILES

user customized telnet startup values

The

FILES

user customized telnet startup values

The

FILES
command appeared in
.Bx 4.2 .
.Sh NOTES
On some remote systems, echo has to be turned off manually when in
"old line by line" mode.
.Pp
In "old line by line" mode or
.Dv LINEMODE
the terminal's
.Ic eof
character is only recognized (and sent to the remote system)
when it is the first character on a line.
.Pp
Source routing is not supported yet for IPv6.

6.368 Template-Toolkit 2.22
6.368.1 Available under license :

Template Toolkit

Version 2.22

21st July 2009

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modify it under the same terms as Perl itself.

HACKER'S GUIDE
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Please hack on the Template Toolkit. It has been designed to be
extensible and has literally dozens of programmer hooks that you can
tap into to do all sorts of cool things. The object oriented
architecture allows you to create your own subclassed modules to
implement your own services, providers, filters, plugins, and so on.

The Template::Manual::Internals document gives a brief overview of the
architecture. Unfortunately, it's not as complete as it could be,
but the code is well documented and generally easy to follow. Don't
be afraid to use the source, Luke.

The internals document also contains information about preparing and
applying patches, updating the documentation and various other
useful tips.
The Template Toolkit was written by Andy Wardley <abw@wardley.org>
with the invaluable assistance and contributions from many other
people. See Template::Manual::Credits for details.

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Template Toolkit
Version 2.22
21st July 2009
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QUICK INSTALL

If you have the CPAN module installed then you can install the Template Toolkit like this from the command line:

$ cpan Template

Otherwise you can install from source code. The latest version of the Template Toolkit can be retrieved from:

http://www.cpan.org/modules/by-module/Template/

Fetch and install AppConfig 1.56 if you don't already have it installed.
Available from CPAN in:

http://www.cpan.org/authors/Andy_Wardley/
To install the Template Toolkit from the command line:

```
$ tar zxf Template-Toolkit-2.22.tar.gz
$ cd Template-Toolkit-2.22
$ perl Makefile.PL
$ make
$ make test
$ make install
```

The Makefile.PL will prompt for any additional configuration options.

For further details, see the sections below on CONFIGURATION, BUILDING AND TESTING, and INSTALLATION. The Template Toolkit web site also has further information about installation.


**PREREQUISITES**

The Template Toolkit is written entirely in Perl and should run on any platform on which Perl is available. It requires Perl 5.006 or later.

The 'ttree' utility uses the AppConfig module (version 1.56 or above) for parsing command line options and configuration files. It is available from CPAN:

http://www.cpan.org/authors/Andy_Wardley/

The Template Toolkit implements a "plugin" architecture which allow you to incorporate the functionality of virtually any Perl module into your templates. A number of plugin modules are included with the distribution for adding extra functionality or interfacing to external CPAN modules. You don't need to install any of these external modules unless you plan to use those particular plugins. See Template::Plugins and Template::Manual::Plugins for further details.

**OBTAINING AND INSTALLING THE TEMPLATE TOOLKIT**

The latest release version of the Template Toolkit can be downloaded from any CPAN site:

http://www.cpan.org/modules/by-module/Template/

Interim and development versions may also be available, along with
other useful information, news, publications, mailing list archives, etc., from the Template Toolkit web site:

http://template-toolkit.org/

The Template Toolkit is distributed as a gzipped tar archive file:

Template-Toolkit-<version>.tar.gz

where <version> represents the current version number, e.g. 2.22.

To install the Template Toolkit, unpack the distribution archive to create an installation directory. Something like this:

$ tar zxf Template-Toolkit-2.22.tar.gz
or
$ gunzip Template-Toolkit-2.22.tar.gz
$ tar xf Template-Toolkit-2.22.tar

You can then 'cd' into the directory created,

$ cd Template-Toolkit-2.22

and perform the usual Perl installation procedure:

$ perl Makefile.PL
$ make
$ make test
$ make install  # may need root access

The Makefile.PL performs various sanity checks and then prompts for a number of configuration items. The following CONFIGURATION section covers this in greater detail.

If you choose to install the optional components then you may need to perform some post-installation steps to ensure that the template libraries, HTML documentation and examples can be correctly viewed via your web browser. The INSTALLATION section covers this.

INSTALLING ON MICROSOFT WIN32 PLATFORMS

For advice on using Perl under Microsoft Windows, have a look here:

http://win32.perl.org/

If you're using Strawberry Perl then you can install the Template
Open Source Used In Firepower 6.5

Toolkit using the CPAN module as described above.

If you're using ActivePerl then you can install it using the Perl Package Manager (ppm) with the pre-compiled packages built by Chris Winters. For further details, see:

http://openinteract.sourceforge.net/
http://activestate.com/

If you prefer, you can manually install the Template Toolkit on Win32 systems by following the instructions in this installation guide. However, please note that you are likely to encounter problems using 'make' and should instead download and use 'nmake' as a replacement. This is available from Microsoft's ftp site.


In this case, you should substitute 'nmake' for 'make' in all the instructions contained herein.

CONFIGURATION
-------------

This section covers the configuration of the Template Toolkit via the Makefile.PL program. If you've successfully run this and didn't have any problems answering any of the questions then you probably don't need to read this section.

The Makefile.PL Perl program performs the module configuration and generates the Makefile which can then be used to build, test and install the Template Toolkit.

$ perl Makefile.PL

The Template Toolkit now boasts a high-speed implementation of Template::Stash written in XS. You can choose to build this as an optional module for using explicitly as an alternative to the regular pure-perl stash module. In additional, you can opt to use the XS Stash as the default, typically making the Template Toolkit run twice as fast!

When prompted, answer 'y' or 'n' to build and optionally use the XS Stash module by default:

Do you want to build the XS Stash module? [y]
Do you want to use the XS Stash for all Templates? [n]
BUILDING AND TESTING
---------------------

This section describes the "make" and "make test" commands which build and test the Template Toolkit. If you ran these without incident, then you can probably skip this section.

The 'make' command will build the Template Toolkit modules in the usual manner.

    make

The 'make test' command runs the test scripts in the 't' subdirectory.

    make test

You can set the TEST_VERBOSE flag when running 'make test' to see the results of the individual tests:

    make test TEST_VERBOSE=1

INSTALLATION
------------

This section describes the final installation of the Template Toolkit via the "make install" and covers any additional steps you may need to take if you opted to build the HTML documentation and/or examples.

The 'make install' will install the modules and scripts on your system. You may need administrator privileges to perform this task. Alternately you can can install the Template Toolkit to a local directory (see ExtUtils::MakeMaker for full details), e.g.

    $ perl Makefile.PL PREFIX=/home/abw/

Don't forget to update your PERL5LIB environment variable if you do this, or add a line to your script to tell Perl where to find the files, e.g.

    use lib qw( /home/abw/lib/perl5/site_perl/5.10.0 );

AUTHOR
------

The Template Toolkit was written by Andy Wardley <abw@wardley.org> with the invaluable assistance and contributions from many other people.
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--------

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the same terms as Perl itself.

--- #YAML:1.0
name:               Template-Toolkit
version:            2.22
abstract:           comprehensive template processing system
author:
  - Andy Wardley <abw@wardley.org>
license:            perl
distribution_type:  module
configure_requires:
  ExtUtils::MakeMaker:  0
requires:
  AppConfig:     1.56
  File::Spec:    0.8
  File::Temp:    0.12
  Scalar::Util:  0
no_index:
directory:
  - t
  - inc
generated_by:       ExtUtils::MakeMaker version 6.48
meta-spec:
  url:      http://module-build.sourceforge.net/META-spec-v1.4.html
  version:  1.4

Template Toolkit

Version 2.22

21st July 2009

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This is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
If you have the CPAN module installed then you can install the Template Toolkit from the command line like so:

```
$ cpan Template
```

Please see the separate INSTALL file for further information on installing the Template Toolkit, including what to do if you don't have the CPAN module installed, and/or installation on MS Windows.

DESCRIPTION
-------------

The Template Toolkit is a collection of modules which implement a fast, flexible, powerful and extensible template processing system. It was originally designed and remains primarily useful for generating dynamic web content, but it can be used equally well for processing any other kind of text based documents: HTML, XML, POD, PostScript, LaTeX, and so on.

It can be used as a stand-alone Perl module or embedded within an Apache/mod_perl server for generating highly configurable dynamic web content. A number of Perl scripts are also provided which can greatly simplify the process of creating and managing static web content and other offline document systems.

WHAT’S NEW?
-------------

Version 2.22 is mostly a bug fixing release. The XS Stash now works with utf8 data. Tests that were failing on Win32 platforms have been fixed. Pod coverage and quality tests have been disabled except for release testing. The Autoformat plugin has been moved into a separate distribution.

Version 2.21 featured a complete clean-out of all the old HTML documentation, examples, libraries and other cruft that was way out of date and badly unloved. A new version of the HTML documentation is available for download from http://tt2.org/download/index.html#html_docs. v2.21 also fixes a memory leak in the XS Stash.

Version 2.21 also adds the STRICT option which reports the use of undefined variable values. The ANYCASE option has been improved so that you can write things like 'data.last' without the 'last' bit being interpreted as the LAST keyword. The xml filter is also new, providing a slightly more rigourous version of the html filter for use in XML documents.
Version 2.20 fixed all known bugs. It also added the Scalar and Assert
plugins. The HTML documentation, examples, libraries and other bits
and pieces are still provided with the distribution, but are no longer
installed by the Makefile.PL. If you want them (and very few people do,
seems), then you'll need to dig them out of the distribution by yourself
(or uncomment the commented-out lines in Makefile.PL that handle the
installation). This has been done in an effort to simplify the installation
process. All of the HTML documentation is available online at http://tt2.org/

Version 2.19 fixed some minor bugs in both Perl and XS versions of the Template
Stash, and fixed a problem with a test in the test suite failing under Win32.
It also added the url filter as a version of what the uri filter used to do
before we fixed it to do the right thing.

Version 2.18 fixes a number of minor bugs. It also includes a modification to
the parser grammar so that you can write expressions as arguments to
subroutine, method or vmethod calls.

Versions 2.17 and 2.16 were interim releases by Adam Kennedy who took care of
some installation problems on Mac OSX while Andy was busy elsewhere.

Version 2.15 is a major maintenance release. It applies all outstanding
patches and closes all open bugs listed on http://rt.cpan.org/ It
includes:

* XS Stash: enhancements include support for tied hashes/arrays
and “fallback” methods on objects (e.g. accessing hash and
list items and calling virtual methods)

* Virtual Methods: added the scalar.remove, scalar.substr,
hash.delete, hash.items, hash.pairs, list.import and list.hash
virtual methods. Added support for backreferences to
scalar.replace and other improvements to list.push, list.unshift,
list.hash, hash.list

* Plugins: Added Math plugin, Bug fixes and enhancements to File,
Image, URL and String plugins. Moved DBI, XML and GD plugins
into separate distributions.

* Numerous other bug fixes, enhancements, documentation updates, all
described in detail in the Changes file.

More significant is what's not in version 2.15. The DBI plugin has
been moved into a separate Template-DBI distribution, the GD plugins
into Template-GD, the XML plugins into Template-XML, and the Latex
filters into Template-Latex. This has been done in an effort to make
the Template Toolkit core distribution smaller, cleaner and easier to
configure and install.

Version 2.14 added Unicode support to TT, a full set of command line options for tpage, the ‘caller’ and ‘callers’ items to each template component, some enhancements to the XML::Simple plugin, and a number of minor bug fixes.

See the Changes file for further details of the changes in these and earlier releases.

GENERAL FEATURES

Some of the key features of the Template Toolkit are listed below. See the documentation for further detail.

* simple but powerful template language

* promotes a clear separation between application functionality and presentation elements

* variable substitution allows binding to any Perl data types (scalars, hashes, lists, subs, objects)

* conditional blocks (IF/UNLESS/ELSIF/ELSE, SWITCH/CASE)

* loops and iterators (FOREACH, WHILE)

* file/template inclusion (INSERT, INCLUDE, PROCESS, WRAPPER)

* definition of local template components (BLOCK)

* post-processing filters (FILTER)

* plugin module architecture for easy extensibility (USE)

* embedded Perl can be optionally enabled (PERL/RAWPERL)

* full exception handling (TRY/THROW/CATCH/FINAL)

* user-defined macros (MACRO)

* definition of template metadata (META)

* virtual methods for complex data types (e.g. list.size, hash.keys, etc.)

* numerous configuration options
* modular OO architecture allows extensive customisation

* fast LALR(1) parser modules compiles templates according to a YACC-like grammar.

* templates compiled to Perl code for efficient runtime execution

* in-memory and on-disk caching of compiled templates

* simple front end module (Template.pm) for ease of use

* numerous plugin modules: CGI, DBI, XML, URL, Date, Table, etc

* standard filters for html, case folding, regex search and replace, etc.

DOCUMENTATION

The Template Toolkit is provided with enough documentation to keep all but the most voracious reader happy for quite some time.

The 'Changes' file in the distribution directory documents all visible changes between versions of the Template Toolkit. See the section 'VERSION COMPATABILITY' below for further details.

The 'TODO' file, also in the distribution directory, lists known bugs, planned enhancements and possible new features for future versions.

The 'INSTALL' file covers the configuration and installation process.

The rest of the documentation is distributed in Pod format. The Pod pages are installed when you 'make install' and can be viewed using 'perldoc', e.g.

    perldoc Template

If you're using a Unix based system then the pages should also be converted to manpages suring the 'make install'. Thus, you can also:

    man Template

(the man pages shouldn't have any problems relating to older versions)

The documentation is also available in HTML format at the TT web site:

    http://tt2.org/docs/
The documentation is now split into several sections. The 'Template' page is now much shorter, containing information relating to the specifics of using the Template module, and a brief summary of everything else. Information relating more generally to the Template Toolkit, features, syntax of the template language, plugins and so forth, has been split up into a number of Template::Manual::* pages. Template::Manual provides the index for the manual.

```
perldoc Template::Manual
```

Individual sections can be viewed as, for example,

```
perldoc Template::Manual::Syntax
perldoc Template::Manual::Directives
perldoc Template::Manual::Plugins
```

The Template::Tutorial provides an index to the tutorial documents. There are currently 2 tutorials, on generating web content, and on creating and using data files.

```
perldoc Template::Tutorial
perldoc Template::Tutorial::Web
perldoc Template::Tutorial::Datafile
```

Each of the various modules that comprise the Template Toolkit has its own associated documentation. The 'Template::Modules' manpage lists these modules along with a brief description of their functions.

```
perldoc Template::Modules
```

See the individual pages for further detail:

```
perldoc Template::Context
perldoc Template::Parser
perldoc Template::Provider
```

If you're interested in the internals of the Template Toolkit and want to know more about how it all works, then you might like to have a look at the following:

```
perldoc Template::Manual::Internals
```

This document also contains important information for people wishing to hack on the Template Toolkit.

The final bit of good news is that there is now a FAQ for the Template Toolkit.
perldoc Template::FAQ

It's now got a few question in it, and better still, some answers! Further contributions welcome.

Most of the documentation is stable and reliable. Where it's not then it's usually marked as such. In particular, the documentation for the internals (Template::Manual::Internals) and FAQ (Template::FAQ) are perpetually under construction.

SUPPORT
-------

The Template Toolkit mailing list provides a forum for discussing issues relating to the use and abuse of the Template Toolkit. There are a number of knowledgeable and helpful individuals who frequent the list (including the author) who can often offer help or suggestions. Please respect their time and patience by checking the documentation and/or mailing list archives before asking questions that may already have been answered.

To subscribe to the mailing list, send an email to:

templates-request@template-toolkit.org

with the message 'subscribe' in the body. You can also use the web interface to subscribe or browse the archives:

http://mail.template-toolkit.org/mailman/listinfo/templates

A low-volume, moderated mailing list exists for announcements about new releases of the Template Toolkit and related products. To subscribe, send an email to:

templates-announce-request@template-toolkit.org

with the message 'subscribe' in the body. A web interface also exists for subscription and browsing the archives:

http://mail.template-toolkit.org/mailman/listinfo/templates-announce

For information about commercial support and consultancy for the Template Toolkit, please contact the author.

AUTHOR
The Template Toolkit was written by Andy Wardley <abw@wardley.org> with the invaluable assistance and contributions from many other people. See Template::Manual::Credits for details.

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The End

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That's all there is to it!

### 6.369 termcap-compat 1.2.3

**6.369.1 Available under license:**

This is the Debian GNU/Linux termcap-compat package.

This package was put together by Christian Hudon
<chrish@debian.org> by combining the following packages:

- ftp://sunsite.unc.edu/pub/Linux/GCC/termcap-2.0.8.tar.gz
  (for the libtermcap.so shared library)
- http://www.ccl.org/~esr/terminfo/termtypes.tc.gz
  (for the termcap database file, more information available on http://www.ccl.org/~esr/n curses.html)

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As for the ncurses termcap database... (quoting from the termcap file itself)

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10114
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6.370 Test-Deep 0.11
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---
abstract: unknown
author:
 - Fergal Daly <fergal@esatclear.ie>
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'
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6.372 Test-NoWarnings 1.04

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

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

That's all there is to it!

6.373 Test-Simple 0.98

6.373.1 Available under license :

--- #YAML:1.0
name:               Test-Simple
version:            0.98
abstract:           Basic utilities for writing tests.
author:
  - Michael G Schwern <schwern@pobox.com>
license:            perl
distribution_type:  module
configure_requires:
  ExtUtils::MakeMaker:  0
build_requires:
  ExtUtils::MakeMaker:  0
requires:
  perl:           5.006
  Test::Harness:  2.03
resources:
  bugtracker:   http://github.com/schwern/test-more/issues
  homepage:     http://test-more.googlecode.com
  license:      http://dev.perl.org/licenses/
  MailingList:  http://groups.google.com/group/test-more-users
  repository:   http://github.com/schwern/test-more/tree/master
no_index:
directory:
  - t
  - inc
generated_by:       ExtUtils::MakeMaker version 6.57_06
meta-spec:
  url:      http://module-build.sourceforge.net/META-spec-v1.4.html
  version:  1.4
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Version 1, February 1989

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

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6.374 Test-Tester 0.108
6.374.1 Available under license:
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The End

NAME
Test::Tester - Ease testing test modules built with Test::Builder

SYNOPSIS
use Test::Tester tests => 6;

use Test::MyStyle;

check_test(
  sub {
    is_mystyle_eq("this", "that", "not eq");
  },
  {  
    ok => 0, # expect this to fail
    name => "not eq",
    diag => "Expected: 'this'
             Got: 'that'
  }
);

or

use Test::Tester;

use Test::More tests => 3;
use Test::MyStyle;

my ($premature, @results) = run_tests(

sub {
    is_database_alive("dbname");
}
);

# now use Test::More::like to check the diagnostic output

like($results[0]->{diag}, "Database ping took \d+ seconds\$/", "diag");

DESCRIPTION
If you have written a test module based on Test::Builder then Test::Tester allows you to test it with the minimum of effort.

HOW TO USE (THE EASY WAY)
From version 0.08 Test::Tester no longer requires you to included anything special in your test modules. All you need to do is

    use Test::Tester;

in your test script before any other Test::Builder based modules and away you go.

Other modules based on Test::Builder can be used to help with the testing. In fact you can even use functions from your module to test other functions from the same module (while this is possible it is probably not a good idea, if your module has bugs, then using it to test itself may give the wrong answers).

The easiest way to test is to do something like

    check_test(
        sub { is_mystyle_eq("this", "that", "not eq") },
        {
            ok => 0, # we expect the test to fail
            name => "not eq",
            diag => "Expected: 'this'\nGot: 'that'",
        }
    );

this will execute the is_mystyle_eq test, capturing it's results and checking that they are what was expected.

You may need to examine the test results in a more flexible way, for example, the diagnostic output may be quite long or complex or it may involve something that you cannot predict in advance like a timestamp. In this case you can get direct access to the test results:

    my ($premature, @results) = run_tests(

We cannot predict how long the database ping will take so we use Test::More's like() test to check that the diagnostic string is of the right form.

**HOW TO USE (THE HARD WAY)**
*This is here for backwards compatibility only*

Make your module use the Test::Tester::Capture object instead of the Test::Builder one. How to do this depends on your module but assuming that your module holds the Test::Builder object in $Test and that all your test routines access it through $Test then providing a function something like this

```perl
sub set_builder
{
    $Test = shift;
}
```

should allow your test scripts to do

```perl
Test::YourModule::set_builder(Test::Tester->capture);
```

and after that any tests inside your module will captured.

**TEST RESULTS**

The result of each test is captured in a hash. These hashes are the same as the hashes returned by Test::Builder->details but with a couple of extra fields.

These fields are documented in Test::Builder in the details() function

```perl
ok
Did the test pass?
```

```perl
actual_ok
Did the test really pass? That is, did the pass come from Test::Builder->ok() or did it pass because it was a TODO test?
```

```perl
name
The name supplied for the test.
```
type
What kind of test? Possibilities include, skip, todo etc. See
Test::Builder for more details.

reason
The reason for the skip, todo etc. See Test::Builder for more details.

These fields are exclusive to Test::Tester.

diag
Any diagnostics that were output for the test. This only includes
diagnostics output after the test result is declared.

Note that Test::Builder ensures that any diagnostics end in a \n and it in
earlier versions of Test::Tester it was essential that you have the final
\n in your expected diagnostics. From version 0.10 onwards, Test::Tester
will add the \n if you forgot it. It will not add a \n if you are
expecting no diagnostics. See below for help tracking down hard to find
space and tab related problems.

depth
This allows you to check that your test module is setting the correct
value for $Test::Builder::Level and thus giving the correct file and line
number when a test fails. It is calculated by looking at caller() and
$Test::Builder::Level. It should count how many subroutines there are
before jumping into the function you are testing. So for example in

run_tests( sub { my_test_function("a", "b") } );

the depth should be 1 and in

sub deeper { my_test_function("a", "b") }

run_tests(sub { deeper() });

depth should be 2, that is 1 for the sub {} and one for deeper(). This
might seem a little complex but if your tests look like the simple
examples in this doc then you don’t need to worry as the depth will always
be 1 and that’s what Test::Tester expects by default.

Note: if you do not specify a value for depth in check_test() then it
automatically compares it against 1, if you really want to skip the depth
test then pass in undef.

Note: depth will not be correctly calculated for tests that run from a
signal handler or an END block or anywhere else that hides the call stack.

Some of Test::Tester's functions return arrays of these hashes, just like
Test::Builder->details. That is, the hash for the first test will be array element 1 (not 0). Element 0 will not be a hash it will be a string which contains any diagnostic output that came before the first test. This should usually be empty, if it's not, it means something output diagnostics before any test results showed up.

SPACES AND TABS

Appearances can be deceptive, especially when it comes to emptiness. If you are scratching your head trying to work out why Test::Tester is saying that your diagnostics are wrong when they look perfectly right then the answer is probably whitespace. From version 0.10 on, Test::Tester surrounds the expected and got diag values with single quotes to make it easier to spot trailing whitesapce. So in this example

```perl
# Got diag (5 bytes):
# 'abcd '
# Expected diag (4 bytes):
# 'abcd'
```

it is quite clear that there is a space at the end of the first string.

Another way to solve this problem is to use colour and inverse video on an ANSI terminal, see below COLOUR below if you want this.

Unfortunately this is sometimes not enough, neither colour nor quotes will help you with problems involving tabs, other non-printing characters and certain kinds of problems inherent in Unicode. To deal with this, you can switch Test::Tester into a mode whereby all "tricky" characters are shown as \{xx}. Tricky characters are those with ASCII code less than 33 or higher than 126. This makes the output more difficult to read but much easier to find subtle differences between strings. To turn on this mode either call show_space() in your test script or set the TESTTESTERSPACE environment variable to be a true value. The example above would then look like

```perl
# Got diag (5 bytes):
# abcd\x{20}
# Expected diag (4 bytes):
# abcd
```

COLOUR

If you prefer to use colour as a means of finding tricky whitespace characters then you can set the TESTTESTCOLOUR environment variable to a comma separated pair of colours, the first for the foreground, the second for the background. For example "white,red" will print white text on a red background. This requires the Term::ANSIColor module. You can specify any colour that would be acceptable to the Term::ANSIColor::color function.

If you spell colour differently, that's no problem. The TESTTESTERCOLOR variable also works (if both are set then the British spelling wins out).
EXPORTED FUNCTIONS

($premature, @results) = run_tests(&test_sub)
&test_sub is a reference to a subroutine.

run_tests runs the subroutine in $test_sub and captures the results of any tests inside it. You can run more than 1 test inside this subroutine if you like.

$premature is a string containing any diagnostic output from before the first test.

@results is an array of test result hashes.

cmp_result(%result, %expect, $name)
%result is a ref to a test result hash.

%expect is a ref to a hash of expected values for the test result.

cmp_result compares the result with the expected values. If any differences are found it outputs diagnostics. You may leave out any field from the expected result and cmp_result will not do the comparison of that field.

cmp_results(@results, @expects, $name)
@results is a ref to an array of test results.

@expects is a ref to an array of hash refs.

cmp_results checks that the results match the expected results and if any differences are found it outputs diagnostics. It first checks that the number of elements in @results and @expects is the same. Then it goes through each result checking it against the expected result as in cmp_result() above.

($premature, @results) = check_tests(&test_sub, @expects, $name)
&test_sub is a reference to a subroutine.

@expect is a ref to an array of hash refs which are expected test results.

check_tests combines run_tests and cmp_tests into a single call. It also checks if the tests died at any stage.

It returns the same values as run_tests, so you can further examine the test results if you need to.

($premature, @results) = check_test(&test_sub, %expect, $name)
&test_sub is a reference to a subroutine.
expect is a ref to an hash of expected values for the test result.

check_test is a wrapper around check_tests. It combines run_tests and cmp_tests into a single call, checking if the test died. It assumes that only a single test is run inside \&test_sub and include a test to make sure this is true.

It returns the same values as run_tests, so you can further examine the test results if you need to.

show_space()
Turn on the escaping of characters as described in the SPACES AND TABS section.

HOW IT WORKS
Normally, a test module (let's call it Test:MyStyle) calls Test::Builder->new to get the Test::Builder object. Test::MyStyle calls methods on this object to record information about test results. When Test::Tester is loaded, it replaces Test::Builder's new() method with one which returns a Test::Tester::Delegate object. Most of the time this object behaves as the real Test::Builder object. Any methods that are called are delegated to the real Test::Builder object so everything works perfectly. However once we go into test mode, the method calls are no longer passed to the real Test::Builder object, instead they go to the Test::Tester::Capture object. This object seems exactly like the real Test::Builder object, except, instead of outputting test results and diagnostics, it just records all the information for later analysis.

SEE ALSO
Test::Builder the source of testing goodness. Test::Builder::Tester for an alternative approach to the problem tackled by Test::Tester - captures the strings output by Test::Builder. This means you cannot get separate access to the individual pieces of information and you must predict exactly what your test will output.

AUTHOR
This module is copyright 2005 Fergal Daly <fergal@esatclear.ie>, some parts are based on other people's work.

Plan handling lifted from Test::More. written by Michael G Schwern <schwern@pobox.com>.

Test::Tester::Capture is a cut down and hacked up version of Test::Builder. Test::Builder was written by chromatic <chromatic@wgz.org> and Michael G Schwern <schwern@pobox.com>.

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6.375 texinfo 4.12

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6.376 Text-CSV 1.16

6.376.1 Available under license:

--- #YAML:1.0
name: Text-CSV
version: 1.16
abstract: comma-separated values manipulator (using XS or PurePerl)
author:
- Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>
license: perl
distribution_type: module
configure_requires:
  ExtUtils::MakeMaker: 0
requires:
  IO::Handle: 0
  Test::Harness: 0
  Test::More: 0
no_index:
directory:
  - t
  - inc
generated_by: ExtUtils::MakeMaker version 6.48
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
Text::CSV version 1.16
===================================

comma-separated values manipulator

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

DEPENDENCIES

Test::More

DESCRIPTION

Text::CSV provides facilities for the composition and decomposition of comma-separated values. An instance of the Text::CSV class can combine fields into a CSV string and parse a CSV string into fields.

The module accepts either strings or files as input and can utilize any user-specified characters as delimiters, separators, and escapes so it is perhaps better called ASV (anything separated values) rather than just CSV.

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Version 1, February 1989

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

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6.377 Text-Glob 0.09

6.377.1 Available under license:

---
abstract: 'match globbing patterns against text'
author:
- 'Richard Clamp <richardc@unixbeard.net>'
buildRequires:
  Test::More: 0
configureRequires:
  Module::Build: 0.36
generatedBy: 'Module::Build version 0.3603'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Text-Glob
provides:
  Text::Glob:
    file: lib/Text/Glob.pm
    version: 0.09
resources:
  license: http://dev.perl.org/licenses/
  version: 0.09
From Glob.pm

================
Richard Clamp <richardc@unixbeard.net>


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SEE ALSO

L<File::Glob>, glob(3)

---
abstract: 'match globbing patterns against text'
author:
  - Richard Clamp <richardc@unixbeard.net>
build_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.36
generated_by: 'Module::Build version 0.3603'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Text-Glob
provides:
  Text::Glob:
    file: lib/Text/Glob.pm
    version: 0.09
resources:
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#
## Tie::EncryptedHash - A tied hash with encrypted fields.
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## This code is based on Damian Conway's Tie::SecureHash.
## $Id: EncryptedHash.pm,v 1.8 2000/09/02 19:23:00 vipul Exp vipul $
## vi:expandtab=1;ts=4;

package Tie::EncryptedHash;

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

**6.384 time 1.7**

**6.384.1 Available under license**: 

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Version 2, June 1991

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---

6.386 Time-Out 0.11

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6.387 TimeDate 1.2
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--- #YAML:1.0
name:               TimeDate
version:            1.20
abstract:           ~
author:
  - Graham Barr <gbarr@pobox.com>
license:            perl
distribution_type:  module
configure_requires:
  ExtUtils::MakeMaker:  0
requires:  {}
resources:
  repository:  http://github.com/gbarr/perl-TimeDate
no_index:
  directory:
    - t
    - inc
generated_by:   ExtUtils::MakeMaker version 6.48
meta-spec:
  url:      http://module-build.sourceforge.net/META-spec-v1.4.html
  version:  1.4
This is the perl5 TimeDate distribution. It requires perl version 5.003 or later

This distribution replaces my earlier GetDate distribution, which was only a date parser. The date parser contained in this distribution is far superior to the yacc based parser, and a *lot* faster.

The parser contained here will only parse absolute dates, if you want a
date parser that can parse relative dates then take a look at the Time
modules by David Muir on CPAN.

You install the library by running these commands:

```perl
perl Makefile.PL
make
make test
make install
```

Please report any bugs/suggestions to <gbarr@pobox.com>

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6.388 tomcat-connectors 1.2.40
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PCRE LICENCE

---------

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Written by: Philip Hazel <ph10@cam.ac.uk>

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!IFDEF APACHE20_HOME
APR_LIB=libapr.lib
APU_LIB=libaprutil.lib
OUTDIR=\Release20
INTDIR=\Release20
APACHE2_HOME=$(APACHE20_HOME)
!ELSE
!IFDEF APACHE24_HOME
APACHE2_HOME=$(APACHE24_HOME)
!ELSE
OUTDIR=\Release24
INTDIR=\Release24
!ELSE
!IFDEF APACHE22_HOME
APACHE2/Home=$(APACHE22_HOME)
OUTDIR=\Release22
INTDIR=\Release22
!ENDIF
!ENDIF
APR_LIB=libapr-1.lib
APU_LIB=libaprutil-1.lib
!ENDIF
!IFDEF APACHE2/Home
!ERROR Missing APACHE2/Home environment variable.
!ENDIF
TARGET=mod_jk$(SO_VERSION)$SO_HTTPD_VERSION
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe
ARCH=X86

ALL : "$OUTDIR|$(TARGET).so"

CLEAN :
-@erase "$INTDIR|jk.res"
-@erase "$INTDIR|jk_ajp12_worker.obj"
-@erase "$INTDIR|jk_ajp13.obj"
-@erase "$INTDIR|jk_ajp13_worker.obj"
-@erase "$INTDIR|jk_ajp14.obj"
-@erase "$INTDIR|jk_ajp14_worker.obj"
-@erase "$INTDIR|jk_ajp_common.obj"
-@erase "$INTDIR|jk_connect.obj"
-@erase "$INTDIR|jk_context.obj"
-@erase "$INTDIR|jk_lb_worker.obj"
-@erase "$INTDIR|jk_map.obj"
-@erase "$INTDIR|jk_md5.obj"
-@erase "$INTDIR|jk_msg_buff.obj"
-@erase "$INTDIR|jk_pool.obj"
-@erase "$INTDIR|jk_shm.obj"
-@erase "$INTDIR|jk_sockbuf.obj"
-@erase "$INTDIR|jk_status.obj"
-@erase "$INTDIR|jk_uri_worker_map.obj"
-@erase "$INTDIR|jk_url.obj"
-@erase "$INTDIR|jk_util.obj"
-@erase "$INTDIR|mod_jk.obj"
-@erase "$(INTDIR)\mod_jk_src.idb"
-@erase "$(INTDIR)\mod_jk_src.pdb"
-@erase "$(OUTDIR)\mod_jk.exp"
-@erase "$(OUTDIR)\mod_jk.lib"
-@erase "$(OUTDIR)\$(TARGET).pdb"
-@erase "$(OUTDIR)\$(TARGET).so"

"$(OUTDIR)" :
  if not exist "$(OUTDIR)/$(NULL)" mkdir "$(OUTDIR)"

BSC32=bsc.exe
BSC32_FLAGS=/nologo /o"$(OUTDIR)\$(TARGET).bsc"
BSC32_SBRS=\

LINK32=link.exe
LINK32_FLAGS=libhttpd.lib $(APR_LIB) $(APU_LIB) kernel32.lib user32.lib advapi32.lib mswsock.lib
ws2_32.lib $(EXTRA_LIBS) /nologo /base:"0x6A6B0000" /subsystem:windows /dll /incremental:no
/pdb:"$(OUTDIR)\$(TARGET).pdb" /debug /machine:$(ARCH) /out:"$(OUTDIR)\$(TARGET).so"
/implib:"$(OUTDIR)\mod_jk.lib" /libpath:"$(APACHE2_HOME)\lib" /opt:ref
LINK32_OBJS=\
  "$\(INTDIR\)\jk_ajp12_worker.obj"  
  "$\(INTDIR\)\jk_ajp13.obj"  
  "$\(INTDIR\)\jk_ajp13_worker.obj"  
  "$\(INTDIR\)\jk_ajp14.obj"  
  "$\(INTDIR\)\jk_ajp14_worker.obj"  
  "$\(INTDIR\)\jk_ajp_common.obj"  
  "$\(INTDIR\)\jk_connect.obj"  
  "$\(INTDIR\)\jk_context.obj"  
  "$\(INTDIR\)\jk_control.obj"  
  "$\(INTDIR\)\jk_ctx.obj"  
  "$\(INTDIR\)\jk_context.obj"  
  "$\(INTDIR\)\jk_map.obj"  
  "$\(INTDIR\)\jk_md5.obj"  
  "$\(INTDIR\)\jk_msg_buff.obj"  
  "$\(INTDIR\)\jk_pool.obj"  
  "$\(INTDIR\)\jk_shm.obj"  
  "$\(INTDIR\)\jk_sockbuf.obj"  
  "$\(INTDIR\)\jk_status.obj"  
  "$\(INTDIR\)\jk_uri_worker_map.obj"  
  "$\(INTDIR\)\jk_url.obj"  
  "$\(INTDIR\)\jk_url.obj"  
  "$\(INTDIR\)\jk_util.obj"  
  "$\(INTDIR\)\jk_worker.obj"  
  "$\(INTDIR\)\jk.res"  
  "$\(INTDIR\)\mod_jk.obj"

"$(OUTDIR)\$(TARGET).so" : "$\(OUTDIR\)" $(DEF_FILE) $(LINK32_OBJS)
 $(LINK32) @<<
 $(LINK32_FLAGS) $(LINK32_OBJS)
<<
@if exist "$\(OUTDIR)\$(TARGET).manifest"
mt -nologo-manifest $(OUTDIR)\$(TARGET).manifest -outputresource:$(OUTDIR)\$(TARGET).so;2

CPP_PROJ=-nologo -MD -W3 -O2 -Ob2 -Oy- -Zi -EHsc /I "..\common" /I "$\{$(APACHE2_HOME)\include" /D "NDEBUG" /D "WIN32" /D "_WINDOWS" $(CFLAGS) /Fo"$(INTDIR)\" /Fd"$(INTDIR)\mod_jk_src" /FD /c

.c{$(INTDIR)}.obj:
$(CPP) @<<
$(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.obj:
$(CPP) @<<
$(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.obj:
$(CPP) @<<
$(CPP_PROJ) $<
<<

.c{$(INTDIR)}.sbr::
$(CPP) @<<
$(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.sbr::
$(CPP) @<<
$(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.sbr::
$(CPP) @<<
$(CPP_PROJ) $<
<<

MTL_PROJ=/nologo /D "NDEBUG" /mktyplib203 /win32
RSC_PROJ=/l 0x409 /fo"$(INTDIR)\jk.res" /i "..\common" /d BASENAME="mod_jk" /d "NDEBUG"

SOURCE=..\common\jk.rc

"$(INTDIR)\jk.res" : $(SOURCE) "$\{$(INTDIR)"$
$(RSC) $(RSC_PROJ) $(SOURCE)

SOURCE=..\common\jk_ajp12_worker.c

"$(INTDIR)\jk_ajp12_worker.obj" : $(SOURCE) "$\{$(INTDIR)"$
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=.\common\jk_ajp13.c

"$(INTDIR)\jk_ajp13.obj" : $(SOURCE) "$\(INTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=.\common\jk_ajp13_worker.c

"$(INTDIR)\jk_ajp13_worker.obj" : $(SOURCE) "$\(INTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=.\common\jk_ajp14.c

"$(INTDIR)\jk_ajp14.obj" : $(SOURCE) "$\(INTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=.\common\jk_ajp14_worker.c

"$(INTDIR)\jk_ajp14_worker.obj" : $(SOURCE) "$\(INTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=.\common\jk_ajp_common.c

"$(INTDIR)\jk_ajp_common.obj" : $(SOURCE) "$\(INTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=.\common\jk_connect.c

"$(INTDIR)\jk_connect.obj" : $(SOURCE) "$\(INTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=.\common\jk_context.c

"$(INTDIR)\jk_context.obj" : $(SOURCE) "$\(INTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=.\common\jk_lb_worker.c

"$(INTDIR)\jk_lb_worker.obj" : $(SOURCE) "$\(INTDIR\)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_map.c
"$(INTDIR)\jk_map.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_md5.c
"$(INTDIR)\jk_md5.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_msg_buff.c
"$(INTDIR)\jk_msg_buff.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_pool.c
"$(INTDIR)\jk_pool.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_shm.c
"$(INTDIR)\jk_shm.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_sockbuf.c
"$(INTDIR)\jk_sockbuf.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_status.c
"$(INTDIR)\jk_status.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_uri_worker_map.c
"$(INTDIR)\jk_uri_worker_map.obj" : $(SOURCE) "$(INTDIR)"

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$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_url.c

"$(INTDIR)\jk_url.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_util.c

"$(INTDIR)\jk_util.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_worker.c

"$(INTDIR)\jk_worker.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\mod_jk.c

"$(INTDIR)\mod_jk.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)

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#
#
# NetWare Makefile for mod_jk (uses build system of Apache 2.x - gnu make)
# created by Guenter Knauf <fuankg@apache.org>
#
#
# Declare the sub-directories to be built here
#

SUBDIRS = \n$(EOLIST)
#
# Get the 'head' of the build environment. This includes default targets and
# paths to tools
#
include $(AP_WORK)/build/NWGNUhead.inc
#
# build this level's files
#
# Make sure all needed macro's are defined
#
JKCOMMON = ../common
#
# These directories will be at the beginning of the include list, followed by
# INCDIRS
#
XINCDIRS+= \n$(JKCOMMON) \n$(APR)/include \n$(APRUTIL)/include \n$(AP_WORK)/include \n$(NWOS) \n$(EOLIST)
#
# These flags will come after CFLAGS
#
XCFLAGS+= \n$(EOLIST)
#
# These defines will come after DEFINES
#
XDEFINES+= \n-D__NOVELL_LIBC__ \n-D_POSIX_SOURCE \n$(EOLIST)
# These flags will be added to the link.opt file

# XLFLAGS+=
$(EOLIST)

# These values will be appended to the correct variables based on the value of # RELEASE
#
ifeq "$(RELEASE)" "debug"
XINCDIRS+=
$(EOLIST)

XCFLAGS+=
$(EOLIST)

XDEFINES+=
$(EOLIST)

XLFLAGS+=
$(EOLIST)
endif

ifeq "$(RELEASE)" "noopt"
XINCDIRS+=
$(EOLIST)

XCFLAGS+=
$(EOLIST)

XDEFINES+=
$(EOLIST)

XLFLAGS+=
$(EOLIST)
endif

ifeq "$(RELEASE)" "release"
XINCDIRS+=
$(EOLIST)

XCFLAGS+=
$(EOLIST)

XDEFINES+=
$(EOLIST)

XLFLAGS+=
$(EOLIST)
endif
XLFLAGS+=\n$(EOLIST)
endif

# These are used by the link target if an NLM is being generated
# This is used by the link 'name' directive to name the nlm. If left blank
# TARGET_nlm (see below) will be used.
# NLM_NAME= mod_jk

# This is used by the link '-desc' directive.
# If left blank, NLM_NAME will be used.
# NLM_DESCRIPTION= Apache $(VERSION_STR) plugin for Tomcat $(JK_VERSION_STR)

# This is used by the link '-copy' directive.
# If left blank, the ASF copyright defined in NWGNUtail.inc will be used.
# NLM_COPYRIGHT=

# This is used by the '-threadname' directive. If left blank,
# NLM_NAME Thread will be used.
# NLM_THREAD_NAME= JK Module

# If this is specified, it will override VERSION value in
# $(AP_WORK)\build\NWGNUenvironment.inc
# NLM_VERSION= $(JK_VERSION)

# If this is specified, it will override the default of 64K
# NLM_STACK_SIZE= 49152

# If this is specified it will be used by the link '-entry' directive
# NLM_ENTRY_SYM= _LibCPrelude

# If this is specified it will be used by the link '-exit' directive
NLM_EXIT_SYM = _LibCPostlude

NLM_CHECK_SYM =

NLM_FLAGS = AUTOUNLOAD, PSEUDOPREEMPTION

TARGET_nlm = $(OBJDIR)/$(NLM_NAME).nlm

TARGET_lib =

FILES_nlm_objs = $(OBJDIR)/jk_nwmain.o $(OBJDIR)/jk_ajp12_worker.o $(OBJDIR)/jk_ajp13.o $(OBJDIR)/jk_ajp13_worker.o $(OBJDIR)/jk_ajp14.o $(OBJDIR)/jk_ajp14_worker.o $(OBJDIR)/jk_connect.o $(OBJDIR)/jk_context.o $(OBJDIR)/jk_lb_worker.o
$(OBJDIR)/jk_map.o \
$(OBJDIR)/jk_md5.o \
$(OBJDIR)/jk_msg_buff.o \
$(OBJDIR)/jk_pool.o \
$(OBJDIR)/jk_shm.o \
$(OBJDIR)/jk_sockbuf.o \
$(OBJDIR)/jk_status.o \
$(OBJDIR)/jk_uri_worker_map.o \
$(OBJDIR)/jk_url.o \
$(OBJDIR)/jk_util.o \
$(OBJDIR)/jk_worker.o \
$(OBJDIR)/mod_jk.o \
$(EOLIST)

#
# These are the LIB files needed to create the NLM target above.
# These will be added as a library command in the link.opt file.
#
FILES_nlm_libs = \
$(NOVELLLIBC)/imports/libcpre.o \
$(EOLIST)

#
# These are the modules that the above NLM target depends on to load.
# These will be added as a module command in the link.opt file.
#
FILES_nlm_modules = \
aprilib \
libc \
$(EOLIST)

#
# If the nlm has a msg file, put it's path here
#
FILE_nlm_msg =

#
# If the nlm has a hlp file put it's path here
#
FILE_nlm_hlp =

#
# If this is specified, it will override $(NWOS)\copyright.txt.
#
FILE_nlm_copyright =

#
# Any additional imports go here
FILES_nlm_Ximports = \n@aprlib.imp \n@httpd.imp \n@libc.imp \n@ws2nlm.imp \n$(EOLIST)

# Any symbols exported to here
# FILES_nlm_exports = \njk_module \n$(EOLIST)

# These are the OBJ files needed to create the LIB target above.
# Paths must all use the '/' character
# FILES_lib_objs = \n$(EOLIST)

# implement targets and dependancies (leave this section alone)
#
libs :: $(OBJDIR) $(TARGET_lib)

nlms :: libs $(TARGET_nlm)

#
# Updated this target to create necessary directories and copy files to the
# correct place. (See $(AP_WORK)/build/NWGNUhead.inc for examples)
# install :: nlms FORCE
copy $(OBJDIR)/*.nlm $(INSTALL)\Apache2\modules\*.nlm

# Any specialized rules here
#
vpath %.c $(JKCOMMON)

$(OBJDIR)/version.inc: $(JKCOMMON)/jk_version.h $(OBJDIR)
@echo Creating $@
@awk -f ../../support/get_ver.awk $< > $@
# Include the version info retrieved from jk_version.h
#
-include $(OBJDIR)/version.inc

# Include the 'tail' makefile that has targets that depend on variables defined
# in this makefile
#
include $(AP_WORK)/build/NWGNUtail.inc

PGM

CRTCMOD MODULE(MOD_JK/MOD_JK) +
   SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
   DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
           '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('mod_jk.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALEUTF) +
   SYSIFOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
   TERASPACE(*YES) +
   TGTRLS(*CURRENT) +
   INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
   SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
   DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
           '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_ajp_common.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALEUTF) +
   SYSIFOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
   TERASPACE(*YES) +
   TGTRLS(*CURRENT) +
   INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
   SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +
   DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
           '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_ajp12_worker.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALEUTF) +
   SYSIFOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +

---
TERASPACE(*YES) +  
TGTRLS(*CURRENT) +  
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +  
SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +  
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +  
' _XOPEN_SOURCE=520' 'USE_APACHE_MD5 ' _REENTRANT') +  
TEXT('jk_ajp13.c') +  
OPTIMIZE(40) +  
LOCALETYPET(LOCALEUTF) +  
SYSIFCLOPT(*IFSIO) +  
LANGLVL(*EXTENDED) +  
TERASPACE(*YES) +  
TGTRLS(*CURRENT) +  
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +  
SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +  
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +  
' _XOPEN_SOURCE=520' 'USE_APACHE_MD5 ' _REENTRANT') +  
TEXT('jk_ajp13_worker.c') +  
OPTIMIZE(40) +  
LOCALETYPET(LOCALEUTF) +  
SYSIFCLOPT(*IFSIO) +  
LANGLVL(*EXTENDED) +  
TERASPACE(*YES) +  
TGTRLS(*CURRENT) +  
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +  
SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +  
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +  
' _XOPEN_SOURCE=520' 'USE_APACHE_MD5 ' _REENTRANT') +  
TEXT('jk_ajp14.c') +  
OPTIMIZE(40) +  
LOCALETYPET(LOCALEUTF) +  
SYSIFCLOPT(*IFSIO) +  
LANGLVL(*EXTENDED) +  
TERASPACE(*YES) +  
TGTRLS(*CURRENT) +  
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +  
SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +  
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +  
' _XOPEN_SOURCE=520' 'USE_APACHE_MD5 ' _REENTRANT') +  
TEXT('jk_ajp14_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT' +
   'USE_SO_RCVTIMEO' 'USE_SO_SNDTIMEO' ) +
TEXT('jk_connect.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_context.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_lb_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLEVEL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
CRTCMOD MODULE(MOD_JK/JK_MAP) +
SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
    '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_map.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MD5) +
SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
    '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_md5.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF) +
SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
    '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_msg_buff.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
    '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_pool.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SOCKBUF) +
SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_sockbuf.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_uri_worker_map.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_url.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALEUTF) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TERASPACE(*YES) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
   '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_util.c') +
OPTIMIZE(40) +
LOCALETYPETMLUTF(+)
SYISFCOPTTMLIFSIO(+)
LANGLVLTMLEXTENDED(+)
TERASPACE(TMLYES(+)
TGTRLSTMLCURRENT(+)
INCDIRTML/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include'

CRTCMOD MODULETMLMOD_JK/JK_WORKER TML+
SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
DEFINE('/AS400/AS400_UTF8 HAVE _APR(+
'XOPEN SOURCE=520 USE _APACHE_MD5_REENTRANT(+
TEXT('/jk_worker.c') +
OPTIMIZE(40) +
LOCALETYPETMLUTF(+)
SYISFCOPTTMLIFSIO(+)
LANGLVLTMLEXTENDED(+)
TERASPACE(TMLYES(+)
TGTRLSTMLCURRENT(+)
INCDIRTML/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include'

CRTCMOD MODULETMLMOD_JK/JK_STATUS TML+
SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
DEFINE('/AS400/AS400_UTF8 HAVE _APR(+
'XOPEN SOURCE=520 USE _APACHE_MD5_REENTRANT(+
TEXT('/jk_status.c') +
OPTIMIZE(40) +
LOCALETYPETMLUTF(+)
SYISFCOPTTMLIFSIO(+)
LANGLVLTMLEXTENDED(+)
TERASPACE(TMLYES(+)
TGTRLSTMLCURRENT(+)
INCDIRTML/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include'

CRTCMOD MODULETMLMOD_JK/JK_SHM TML+
SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
DEFINE('/AS400/AS400_UTF8 HAVE _APR(+
'XOPEN SOURCE=520 USE _APACHE_MD5_REENTRANT(+
TEXT('/jk_shm.c') +
OPTIMIZE(40) +
LOCALETYPETMLUTF(+)
SYISFCOPTTMLIFSIO(+)
LANGLVLTMLEXTENDED(+)
TERASPACE(TMLYES(+)
TGTRLSTMLCURRENT(+)
INCDIRTML/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include'

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
MODULE(MOD_JK/MOD_JK +
    MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
    MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
    MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
    MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
    MOD_JK/JK_LB_WORK +
    MOD_JK/JK_MAP MOD_JK/JK_MD5 +
    MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
    MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
    MOD_JK/JK_URL +
    MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
    MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
EXPORT(*SRCFILE) +
BNDDIR() +
TGTRLS(*CURRENT) +
SRCFILE(MOD_JK/QSRVSRC) +
SRCMBR(MOD_JK) +
USRPRF(*USER) +
BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
    QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
TEXT('Apache Tomcat mod_jk connector module')

ENDPGM

PGM

CRTCMOD MODULE(MOD_JK/MOD_JK) +
    SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
    DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
        'USE_APACHE_MD5' '_REENTRANT') +
    TEXT('mod_jk.c') +
    OPTIMIZE(40) +
    LOCALETYPE(*LOCALE) +
    SYSIFCOPT(*IFSIO) +
    LANGLVL(*EXTENDED) +
    TGTRLS(*CURRENT) +
    INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
    SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
    DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
        'USE_APACHE_MD5' '_REENTRANT') +
    TEXT('jk_ajp_common.c') +
    OPTIMIZE(40) +
    LOCALETYPE(*LOCALE) +
    SYSIFCOPT(*IFSIO) +
    LANGLVL(*EXTENDED) +
    TGTRLS(*CURRENT) +
    INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
CRTCMD MODULE(MOD_JK/JK_AJP12_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +
DEFINE('AS400' 'HAVE/APR' '_XOPEN_SOURCE=520' +
    'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp12_worker.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common ' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MODULE(MOD_JK/JK_AJP13) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
DEFINE('AS400' 'HAVE/APR' '_XOPEN_SOURCE=520' +
    'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp13.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common ' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MODULE(MOD_JK/JK_AJP13_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
DEFINE('AS400' 'HAVE/APR' '_XOPEN_SOURCE=520' +
    'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp13_worker.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common ' '/QIBM/ProdData/HTTPA/Include')

CRTCMD MODULE(MOD_JK/JK_AJP14) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
DEFINE('AS400' 'HAVE/APR' '_XOPEN_SOURCE=520' +
    'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp14.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common ' '/QIBM/ProdData/HTTPA/Include')
CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
SRCSTMF('home/apache/jk/native/common/jk_ajp14_worker.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
  'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp14_worker.c') +
OPTIMIZE(40) +
LOCALETYPEx LOCALE) +
SYSIFCOPTx IFSIO) +
LANGLVLx EXTENDED) +
TGTRLSx CURRENT) +
INCDIR('home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
SRCSTMF('home/apache/jk/native/common/jk_connect.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
  'USE_APACHE_MD5' '_REENTRANT' 'USE_SO_RCVTIMEO' +
  'USE_SO_SNDTIMEO') +
TEXT('jk_connect.c') +
OPTIMIZE(40) +
LOCALETYPEx LOCALE) +
SYSIFCOPTx IFSIO) +
LANGLVLx EXTENDED) +
TGTRLSx CURRENT) +
INCDIR('home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
SRCSTMF('home/apache/jk/native/common/jk_context.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
  'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_context.c') +
OPTIMIZE(40) +
LOCALETYPEx LOCALE) +
SYSIFCOPTx IFSIO) +
LANGLVLx EXTENDED) +
TGTRLSx CURRENT) +
INCDIR('home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
SRCSTMF('home/apache/jk/native/common/jk_lb_worker.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
  'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_lb_worker.c') +
OPTIMIZE(40) +
LOCALETYPEx LOCALE) +
SYSIFCOPTx IFSIO) +
LANGLVLx EXTENDED) +
TGTRLSx CURRENT) +
INCDIR('home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
CRTCMOD MODULE(MOD_JK/JK_MAP) +
SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APR_MD5' '_REENTRANT') +
TEXT('jk_map.c') +
OPTIMIZE(40) +
LOCALETYPe(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MD5) +
SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APR_MD5' '_REENTRANT') +
TEXT('jk_md5.c') +
OPTIMIZE(40) +
LOCALETYPe(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF) +
SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APR_MD5' '_REENTRANT') +
TEXT('jk_msg_buff.c') +
OPTIMIZE(40) +
LOCALETYPe(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
   'USE_APR_MD5' '_REENTRANT') +
TEXT('jk_pool.c') +
OPTIMIZE(40) +
LOCALETYPe(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
CRTCMOD MODULE(MOD_JK/JK.SOCKBUF) +
SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_sockbuf.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK.URI_W_M) +
SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_uri_worker_map.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK.URL) +
SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_url.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK.UTIL) +
SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_util.c') +
OPTIMIZE(40) +
LOCALETYP(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')
CRTCMOD MODULE(MOD_JK/JK_WORKER) +
SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
     'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_worker.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
     'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_status.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
SRCSTMF('/home/apache/jk/native/common/jk shm.c') +
DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
     'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk shm.c') +
OPTIMIZE(40) +
LOCALETYPE(*LOCALE) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*EXTENDED) +
TGTRLS(*CURRENT) +
INCDIR('/home/apache/jk/native/common '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
MODULE(MOD_JK/MOD_JK +
    MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
    MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
    MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
    MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
    MOD_JK/JK_LB_WORK +
    MOD_JK/JK_MAP MOD_JK/JK_MD5 +
    MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
    MOD_JK/JK.SOCKBUF MOD_JK/JK_URI_W_M +
    MOD_JK/JK_URL +
MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
EXPORT(*SRCFILE) +
BNDDIR() +
TGTRLS(*CURRENT) +
SRCFILE(MOD_JK/QSRVSRC) +
SRCMBR(MOD_JK) +
USRPRF(*USER) +
BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
TEXT('Apache Tomcat mod_jk connector module')

ENDPGM

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BSD, like in_cksum.c, according to wireshark-dev@, message-id:
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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

Wireshark requires a number of additional programs to function. Install the latest versions of the following programs before compiling:

atk
cairo
expat
gettext
glib2
glitz
gtk2 / gtk+2
jpeg
pango
pkgconfig
png
The easiest way to install these is by using your operating system's ports or packages system.

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.

/* <filename>.c
 *
* $Id$
*
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* By Gerald Combs <gerald@wireshark.org>
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*
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*/

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name: XML-SAX-Expat
version: 0.40
abstract: SAX Driver for Expat
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6.416 XML-Simple 2.18
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6.419 xmlsec1 1.2.18

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# 6.420 xz 5.0.3

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

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version 1.2.5, April 19th, 2010

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The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
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*/

6.427 zlib/contrib-ada subpart 1.2.5
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[18]Douglas C. Schmidt


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--activemq-web-demo

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package org.apache.commons.codec;

/**
 * Defines common decoding methods for byte array decoders.
 *
 * @author Apache Software Foundation
 *
 * @version $Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp $
 */

public interface BinaryDecoder extends Decoder {

/**
 * Decodes a byte array and returns the results as a byte array.
 *
 * @param pArray A byte array which has been encoded with the
 * appropriate encoder
 *
 * @return a byte array that contains decoded content
 *
 * @throws DecoderException A decoder exception is thrown
 */

* if a Decoder encounters a failure condition during
* the decode process.
*
byte[] decode(byte[] pArray) throws DecoderException;
}

The commons-codec team is pleased to announce the Codec 1.3 release!

http://jakarta.apache.org/commons/codec/

The codec package contains simple encoder and decoders for various formats such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding utilities.

Changes in this version include:

New Features:

- BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
- QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.
- BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- QCodec: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.

Fixed bugs:

- The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
- Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
- Hex converts illegal characters to 255. Issue: 28455.
- Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
- Added missing tags in Javadoc comments.
- General Javadoc improvements.
Changes:

- This version is released under the Apache License 2.0, please see LICENSE.txt. Previous versions were released under the Apache License 1.1.
- The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

Have fun!
- The commons-codec team

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- javaee_web_services_client_1_2.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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7.17 asm 5.0.1

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7.25 Base64.java

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7.58 dnsjava 2.1.4

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7.91 jackson-module-jaxb-annotations 2.9.9

7.92 jackson-module-jsonSchema 2.9.9

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com/sun/xml/xsom/impl/util/Uri.java
org/relaxng/datatype/helpers/DatatypeLibraryLoader.java

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package org.jdom;

/**
 * An XML comment. Methods allow the user to get and set the text of the
 * comment.
 * * @version $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ *
 * @author Brett McLaughlin
 * @author Jason Hunter
 */
public class Comment extends Content {

private static final String CVS_ID =
"@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 $";

/** Text of the <code>Comment</code> */
protected String text;

/**
 * Default, no-args constructor for implementations to use if needed.
 */
protected Comment() {
}

/**
 * This creates the comment with the supplied text.
 * * @param text <code>String</code> content of comment.
 */
public Comment(String text) {
    setText(text);
}

}
* Returns the XPath 1.0 string value of this element, which is the
* text of this comment.
*
* @return the text of this comment
*/
public String getValue() {
    return text;
}

/**
* This returns the textual data within the <code>Comment</code>.
*
* @return <code>String</code> - text of comment.
*/
public String getText() {
    return text;
}

/**
* This will set the value of the <code>Comment</code>.
*
* @param text <code>String</code> text for comment.
* @return <code>Comment</code> - this Comment modified.
* @throws IllegalDataException if the given text is illegal for a
*         Comment.
*/
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalDataException(text, "comment", reason);
    }
    this.text = text;
    return this;
}

/**
* This returns a <code>String</code> representation of the
* <code>Comment</code>, suitable for debugging. If the XML
* representation of the <code>Comment</code> is desired,
* @link org.jdom.output.XMLOutputter#outputString(Comment)
* should be used.
*
* @return <code>String</code> - information about the
*         <code>Attribute</code>
*/
public String toString() {
    return new StringBuffer()
7.113 JDOM 1.1

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Version: GnuPG v1.4.1 (GNU/Linux)

iD8DBQFDjMI6j97Uv2IW248RAmGNAJ9/krpkiYJRtJTMXVkJ3cdnVvF+QChYFEh
pN0h9U/xdFTRMFsXYFHQeN4=
="24Hd
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iD8DBQFD37/4dL6IZr4c+6kRAstsIAJ41td3lj4OM6sIMfJfT0dT1bxwCdGgWv
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  javax.servlet;javax.servlet-api
  javax.servlet.jsp;javax.servlet.jsp-api
  org.glassfish.web;javax.servlet.jsp
  org.glassfish.web;javax.servlet.jsp
  org.glassfish.web;javax.servlet.jsp.jstl
  org.eclipse.jetty.orbit;javax.servlet.jsp.jstl
The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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7.124 JigSaw 2.2.1

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

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

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

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For 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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7.137 jul-to-slf4j 1.7.7
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7.139 Log4cpp 0.2.5

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7.140 log4j-api 2.3

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were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
http://snowball.tartarus.org/

The Arabic stemmer (contrib/analyzers) comes with a default
stopword list that is BSD-licensed created by Jacques Savoy. The file resides in
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt.

The Persian analyzer (contrib/analyzers) comes with a default
stopword list that is BSD-licensed created by Jacques Savoy. The file resides in

Includes lib/servlet-api-2.4.jar from Apache Tomcat

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7.146 mariadb-java-client 1.1.7

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7.151 mysql-connector-java 5.1.30

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7.153 NetComponents 1.3 :8

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7.158 perl 5.8.7

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7.160 postgresql 9.4-1201-jdbc4

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7.161 protobuf 2.4.1

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# This file contains a list of people who've made non-trivial contribution to the Google C++ Testing Framework project. People who commit code to the project are encouraged to add their names here. Please keep the list sorted by first names.

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* Optimize Java serialization of strings so that UTF-8 encoding happens only
  once per string per serialization call.
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* Added atomicops for Solaris

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7.164 regexp 1.1

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^L

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

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

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

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the 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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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.

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reproducing the executable from it. However, as a special exception,
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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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.

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

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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.

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protocols for communication across the network.

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7.170 slf4j 1.5.2

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7.174 slf4j-api_ASLv2.0 1.7.7

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7.179 SNMP4J 2.2.5

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7.186 spring-jdbc 4.0.5.RELEASE

7.187 spring-jms 4.0.5.RELEASE

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7.190 spring-webmvc 3.2.4

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7.191 sqlite-jdbc 3.8.7

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License Info:: A description of the license type.
Holder:: The company name of the license holder.
Effective Date:: Date and time when the license will become valid.
Expiration Date: Date and time when the license will no longer be valid.
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ifdef::pro[
image:configuration/license-key.png[]
endif::pro[

PNG

IHDR C;jICCI3C Profile(c`*I,aa`*)
rwRR `\l/3JyVfr%:w:jq2#Rd%E%@ {dd!
vVdK[a]}.@EIR90:@e0x0(030X228V:Teg(8C6U9?@HG3/YOGg@Mg;_K)\<km
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7.207 velocity-dep 1.3.1

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7.208 voltdb 6.2
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   */
package org.voltdb.common;

import java.util.Arrays;
import java.util.Collection;
import java.util.EnumSet;
import org.voltdb.catalog.Group;

//If you add a permission here add a boolean in spec.txt and update getPermissionSetForGroup method
public enum Permission {
  //These enums maps to specific boolean in spec.txt
  ADMIN, // aliased by SYSPROC
  ALLPROC,
  DEFAULTPROC,
  DEFAULTPROCREAD,
  SQL, // aliased by ADHOC
  SQLREAD;

  public static final String toListString() {
    return Arrays.asList(values()).toString();
  }

  /**
   * Get the Permission enum by its name or alias
   */
  public static final Permission valueOfFromAlias(String name) throws IllegalArgumentException {
    try {
      return valueOf(name);
    } catch (IllegalArgumentException e) {
      // Put the aliases here
      if (name.equalsIgnoreCase("SYSPROC")) {
        return ADMIN;
      } else if (name.equalsIgnoreCase("ADHOC")) {
        return SQL;
      } else {
        throw e;
      }
    }
  }

  /**
   * This is there so that bools in spec are converted to enums in one place.
   * @param catGroup defined in catalog
   * @return permissions as <code>EnumSet&ltPermission&gt</code>
   */
  public static final EnumSet<Permission> getPermissionSetForGroup(Group catGroup) {
    EnumSet<Permission> perms = EnumSet.noneOf(Permission.class);
if (catGroup.getAdmin()) addPermission(perms, ADMIN);
if (catGroup.getSql()) addPermission(perms, Permission.SQL);
if (catGroup.getSqlread()) addPermission(perms, Permission.SQLREAD);
if (catGroup.getDefaultproc()) addPermission(perms, Permission.DEFAULTPROC);
if (catGroup.getDefaultprocread()) addPermission(perms, Permission.DEFAULTPROCREAD);
if (catGroup.getAllproc()) addPermission(perms, Permission.ALLPROC);
return perms;
}

/**
 * Construct a permissions set from a collection of aliases.
 * @throws java.lang.IllegalArgumentException If the alias is not valid. The message is the alias name.
 */
public static final EnumSet<Permission> getPermissionsFromAliases(Collection<String> aliases)
throws IllegalArgumentException {
EnumSet<Permission> permissions = EnumSet.noneOf(Permission.class);
for (String alias : aliases) {
    try {
        addPermission(permissions, Permission.valueOfFromAlias(alias.trim().toUpperCase()));
    } catch (IllegalArgumentException e) {
        throw new IllegalArgumentException(alias.trim().toUpperCase());
    }
}
return permissions;
}

/**
 * Add the given permission to the permission set.
 * @param permissions The permission set
 * @param toAdd The permissions to add
 * @return The same permission set as passed in
 */
private static EnumSet<Permission> addPermission(EnumSet<Permission> permissions, Permission...toAdd)
{
    for (Permission onePerm : toAdd) {
        // Permissions that infer other permissions need to be listed here and
        // set the inferred permissions as well as itself.
        //
        // Always add the permission itself and then call this method to add
        // the inferred permissions.
        switch (onePerm) {
            case ADMIN:
                permissions.addAll(EnumSet.allOf(Permission.class));
                break;
            case SQL:
                permissions.add(SQL);
                addPermission(permissions, SQLREAD, DEFAULTPROC);
                break;
        }
    }
    return permissions;
}
case SQLREAD:
    permissions.add(SQLREAD);
    addPermission(permissions, DEFAULTPROCREAD);
    break;
    case DEFAULTPROC:
        permissions.add(DEFAULTPROC);
        addPermission(permissions, DEFAULTPROCREAD);
    default:
        permissions.add(onePerm);
        break;
    }
    return permissions;
}

/**
* Set the boolean flags in the catalog group based on the given permissions.
* If a flag is set in the catalog group but the corresponding permission is not
* present in the permissions set, the flag will NOT be flipped.
* *
* @param group The catalog group
* @param permissions Permissions to set in the group
*/
public static final void setPermissionsInGroup(Permission group, EnumSet<Permission> permissions) {
    for (Permission p : permissions) {
        switch(p) {
            case ADMIN:
                group.setAdmin(true);
                break;
            case DEFAULTPROC:
                group.setDefaultproc(true);
                break;
            case DEFAULTPROCREAD:
                group.setDefaultprocread(true);
                break;
            case SQL:
                group.setSql(true);
                break;
            case SQLREAD:
                group.setSqlread(true);
                break;
            case ALLPROC:
                group.setAllproc(true);
                break;
            }
        }
    }
}
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/** A very fast and memory efficient class to encode and decode to and from BASE64 in full accordance
 with RFC 2045.<br><br>
 On Windows XP sp1 with 1.4.2_04 and later ;), this encoder and decoder is about 10 times faster
 on small arrays (10 - 1000 bytes) and 2-3 times as fast on larger arrays (10000 - 1000000 bytes)
 compared to <code>sun.misc.Encoder()/Decoder()</code>.<br><br>
 On byte arrays the encoder is about 20% faster than Jakarta Commons Base64 Codec for encode and
 about 50% faster for decoding large arrays. This implementation is about twice as fast on very small
 arrays (&lt; 30 bytes). If source/destination is a <code>String</code> this
 version is about three times as fast due to the fact that the Commons Codec result has to be recoded
 to a <code>String</code> from <code>byte[]</code>, which is very expensive.<br><br>
 This encode/decode algorithm doesn't create any temporary arrays as many other codecs do, it only
 allocates the resulting array. This produces less garbage and it is possible to handle arrays twice
 as large as algorithms that create a temporary array. (E.g. Jakarta Commons Codec). It is unknown
 whether Sun's <code>sun.misc.Encoder()/Decoder()</code> produce temporary arrays but since performance
 is quite low it probably does.<br><br>
 The encoder produces the same output as the Sun one except that the Sun's encoder appends
 a trailing line separator if the last character isn't a pad. Unclear why but it only adds to the
 length and is probably a side effect. Both are in conformance with RFC 2045 though.<br><br>
 Commons codec seem to always att a trailing line separator.<br><br>
 Note! The encode/decode method pairs (types) come in three versions with the <code>exact</code> same algorithm and
 thus a lot of code redundancy. This is to not create any temporary arrays for transcoding to/from different
 format types. The methods not used can simply be commented out. <br><br>
There is also a "fast" version of all decode methods that works the same way as the normal ones, but has a few demands on the decoded input. Normally though, these fast versions should be used if the source if the input is known and it hasn't bee tampered with.

If you find the code useful or you find a bug, please send me a note at base64@miginfocom.com.

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Date: 2004-aug-02
Time: 11:31:11
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// #ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#ifdef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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

#include <cstddef>

namespace boost {
    namespace container {
        namespace container_detail { 

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

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

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typedef integral_constant<T,val> type;
;

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

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

typedef true_  true_type;
typedef false_ false_type;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {
#endif  //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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 *
 * Abstract: The main routine
 *
 * --*/

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# A gnuplot script to generate a bar chart
reset
set style fill solid 1.00 border 0
set style histogram clustered gap 2
set style data histogram
set xtics rotate by -45
set grid ytics
set xlabel "Number of rows"
set ylabel "Cardinality"
set yrange [0:*]
set key on left
set term png size 1280, 960 font 'Helvetica,20' noenhanced
set output 'bench_accuracy.png'
plot 'bench_accuracy.dat' using 2:xticlabel(sprintf("%s\n%2.1f\% error", stringcolumn(1), column(4))) ti "Exact", 'bench_accuracy.dat' using 3:xticlabel(sprintf("%s\n%2.1f\% error", stringcolumn(1), column(4))) ti "Estimate"
# A gnuplot script to generate a bar chart
reset
set style fill solid 1.00 border 0
set style histogram clustered gap 2
set style data histogram
set xtics rotate by -45
set grid ytics
set xlabel "Number of rows"
set ylabel "Execution time (ms)"
set yrange [0:*]
set key on left
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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel
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The Debian package of MySQL was first debianized on 1997-04-12 by Christian
Schwarz <schwarz@debian.org> and ist maintained since 1999-04-20 by
Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and
are now managed by the MariaDB development team,
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gethostname.c: minimal substitute for missing gethostname() function
created 2000-Mar-02 jmk
requires SVR4 uname() and -lc

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cmake-2.4.8/Utilities/cmzlib/zlib.h:
zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002

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Sources for Time Zone and Daylight Saving Time Data
@(#)tz-link.htm 7.54

Please send corrections to this web page to the time zone mailing list.
The tz database

The public-domain time zone database contains code and data that represent the history of local time for many representative locations around the globe. It is updated periodically to reflect changes made by political bodies to time zone boundaries, UTC offsets, and daylight-saving rules. This database (often called tz or zoneinfo) is used by several implementations, including the GNU C Library used in GNU/Linux, FreeBSD, NetBSD, OpenBSD, Cygwin, DJGPP, HP-UX, IRIX, Mac OS X, OpenVMS, Solaris, Tru64, and UnixWare.

Each location in the database represents a national region where all clocks keeping local time have agreed since 1970. Locations are identified by continent or ocean and then by the name of the location, which is typically the largest city within the region. For example, America/New_York represents most of the US eastern time zone; America/Phoenix represents most of Arizona, which uses mountain time without daylight saving time (DST); America/Detroit represents most of Michigan, which uses eastern time but with different DST rules in 1975;
and other entries represent smaller regions like Starke County, Indiana, which switched from central to eastern time in 1991 and switched back in 2006. To use the database on an extended POSIX implementation set the TZ environment variable to the location's full name, e.g., TZ="America/New_York".

In the tz database's FTP distribution the code is in the file tzcodeC.tar.gz, where C is the code's version; similarly, the data are in tzdataD.tar.gz, where D is the data's version. The following shell commands download these files to a GNU/Linux or similar host; see the downloaded README file for what to do next.

```
wget 'ftp://elsie.nci.nih.gov/pub/tz*.tar.gz'
gzip -dc tzcode*.tar.gz | tar -xf -
gzip -dc tzdata*.tar.gz | tar -xf -
```

The code lets you compile the tz source files into machine-readable binary files, one for each location. It also lets you read a tz binary file and interpret time stamps for that location.

The data are by no means authoritative. If you find errors, please send changes to the time zone mailing list. You can also subscribe to the mailing list, retrieve the archive of old messages (in gzip compressed format), or retrieve archived older versions of code and data; there is also a smaller HTTP mirror.

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THE BASIC LIBRARY FUNCTIONS

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

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== MariaDB ==

The Debian package of MySQL was first debianized on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

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

MariaDB can be downloaded from https://downloads.mariadb.org/

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The manual had to be removed as it is not free in the sense of the Debian Free Software Guidelines (DFSG).

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# Variable Name: license
# Scope: Global
# Access Type: Static
# Data Type: string
#
# Creation Date: 2008-02-07
# Author: Sharique Abdullah

# Description: Test Cases of Dynamic System Variable license that checks the behavior of this variable in the following ways:
# * Value Check
# * Scope Check


--echo '#---------------------BS_STVARS_040_01----------------------#'

--echo '#---------------------BS_STVARS_040_02----------------------#'

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected
--echo '#---------------------BS_STVARS_040_03----------------------#'
# Check if the value in GLOBAL Table matches value in variable #
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

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

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_04----------------------#'
# Check if accessing variable with and without GLOBAL point to same variable#
SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_05----------------------#'
# Check if license can be accessed with and without @@ sign #
SELECT COUNT(@@license);
--echo 1 Expected

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

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

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

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

'#---------------------BS_STVARS_040_01----------------------#'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#---------------------BS_STVARS_040_02----------------------#'
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#---------------------BS_STVARS_040_03----------------------#'
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected

'#---------------------BS_STVARS_040_04----------------------#'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected

'#---------------------BS_STVARS_040_05----------------------#'
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'
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gethostname.c: minimal substitute for missing gethostname() function
created 2000-Mar-02 jmk
requires SVR4 uname() and -lc

by Jim Knoble
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cmake-2.4.8/Source/CTest/Curl/inet_pton.c:
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Sources for Time Zone and Daylight Saving Time Data
@(#)tz-link.htm 7.54

Please send corrections to this web page to the time zone mailing list.
The tz database

The public-domain time zone database contains code and data that represent the
history of local time for many representative locations around the globe. It is
updated periodically to reflect changes made by political bodies to time zone
boundaries, UTC offsets, and daylight-saving rules. This database (often called
tz or zoneinfo) is used by several implementations, including the GNU C Library
used in GNU/Linux, FreeBSD, NetBSD, OpenBSD, Cygwin, DJGPP, HP-UX, IRIX, Mac OS
Each location in the database represents a national region where all clocks keeping local time have agreed since 1970. Locations are identified by continent or ocean and then by the name of the location, which is typically the largest city within the region. For example, America/New_York represents most of the US eastern time zone; America/Phoenix represents most of Arizona, which uses mountain time without daylight saving time (DST); America/Detroit represents most of Michigan, which uses eastern time but with different DST rules in 1975; and other entries represent smaller regions like Starke County, Indiana, which switched from central to eastern time in 1991 and switched back in 2006. To use the database on an extended POSIX implementation set the TZ environment variable to the location's full name, e.g., TZ="America/New_York".

In the tz database's FTP distribution the code is in the file tzcodeC.tar.gz, where C is the code's version; similarly, the data are in tzdataD.tar.gz, where D is the data's version. The following shell commands download these files to a GNU/Linux or similar host; see the downloaded README file for what to do next.

```
wget 'ftp://elsie.nci.nih.gov/pub/tz*.tar.gz'
gzip -dc tzcode*.tar.gz | tar -xf -
gzip -dc tzdata*.tar.gz | tar -xf -
```

The code lets you compile the tz source files into machine-readable binary files, one for each location. It also lets you read a tz binary file and interpret time stamps for that location.

The data are by no means authoritative. If you find errors, please send changes to the time zone mailing list. You can also subscribe to the mailing list, retrieve the archive of old messages (in gzip compressed format), or retrieve archived older versions of code and data; there is also a smaller HTTP mirror.

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

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

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

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

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

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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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

6. As an exception to the Sections above, you may also 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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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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10.13 mariadb-java-client 1.7.0

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

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

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

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</head>

<body>

<!-- Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a> &raquo <a href="/licenses/">Licenses</a></div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu">

<li><a href="/foundation/">Overview</a></li>

<li><a href="/foundation/members.html">Members</a></li>

<li><a href="/foundation/how-it-works.html">Process</a></li>

<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

<li><a href="/foundation/glossary.html">Glossary</a></li>

<li><a href="/foundation/preFAQ.html">FAQ</a></li>

<li><a href="/foundation/contact.html">Contact</a></li>

</ul>

</li>

<li><a href="/index.html#projects-list">Projects</a></li>

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu">

</ul>

</li>

</ul>

</div>

</div>

</nav>

</header>

</body>
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11.1 @babel/core 7.0.0

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11.2 @ember/jquery 0.5.2
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11.3 @ember/optional-features 0.6.3

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11.4 accessors-smart 1.1

11.5 ajv 6.5.3

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- web-app_3_0.xsd
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The original XML Schemas for Java EE Deployment Descriptors:
  - javaee_5.xsd
  - javaee_web_services_1_2.xsd
  - javaee_web_services_client_1_2.xsd
  - javaee_6.xsd
  - javaee_web_services_1_3.xsd
  - javaee_web_services_client_1_3.xsd
  - jsp_2_2.xsd
  - web-app_3_0.xsd
  - web-common_3_0.xsd
  - web-fragment_3_0.xsd
  - javaee_7.xsd
  - javaee_web_services_1_4.xsd
  - javaee_web_services_client_1_4.xsd
  - jsp_2_3.xsd
  - web-app_3_1.xsd
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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
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11.10 apoc-3.4.0.4 3.4.0.4

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11.18 babel-plugin-transform-object-rest-spread 6.26.0
11.19 backbone 1.1.2

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11.20 body-parser 1.15.0

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11.21 Bootstrap 3.3.7

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11.23 Bouncy Castle PKIX, CMS, EAC, TSP, PKCS, OCSP, CMP, And CRMF APIs 1.60
11.24 Bouncy Castle Provider 1.60

11.25 broccoli-asset-rev 2.7.0

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11.26 broccoli-funnel 1.1.0

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11.27 broccoli-less-single 0.6.3

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11.28 busboy-body-parser 0.0.9

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11.29 caffeine 2.6.2

11.30 cdi-api 1.0 :SP1

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11.31 cglib-nodep 2.2

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11.32 chance 0.7.7

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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11.51 concurrentlinkedhashmap 1.4.2

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11.58 ember-ajax 3.1.0

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11.59 ember-array-contains-helper 2.0.0

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11.60 ember-basic-dropdown 1.0.4

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11.61 ember-browserify 1.1.13

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11.62 ember-cli 3.4.3

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node-http-proxy

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11.63 ember-cli-app-version 3.2.0

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11.64 ember-cli-babel 6.17.1

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11.65 ember-cli-blanket 0.9.8

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11.66 ember-cli-clipboard 0.10.0

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11.68 ember-cli-dependency-checker 3.0.0

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11.69 ember-cli-deprecation-workflow 1.0.0

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11.70 ember-cli-es5-shim 0.2.0

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11.71 ember-cli-eslint 5.0.0

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11.72 ember-cli-htmlbars 3.0.0

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11.74 ember-cli-inject-live-reload 1.8.2

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11.75 ember-cli-jquery-ui 0.0.20

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11.76 ember-cli-jshint 2.0.1

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11.77 ember-cli-jwt-decode 0.1.0

11.78 ember-cli-legacy-blueprints 0.2.1

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11.79 ember-cli-less 1.5.3

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11.80 ember-cli-pretender 0.6.0

11.81 ember-cli-shims 1.2.0

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11.82 ember-cli-sri 2.1.1

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11.83 ember-cli-template-lint 1.0.0-beta.1

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11.84 ember-cli-uglify 2.1.0

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11.85 ember-cli-uploader 0.3.11

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11.90 ember-exam 1.0.0

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11.95 ember-link-action 0.1.2

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11.96 ember-load-initializers 1.1.0

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11.97 ember-maybe-import-regenerator 0.1.6

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11.98 ember-metal 0.9.2

11.99 ember-notify 5.3.0
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11.100 ember-page-title 5.0.1

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11.101 ember-power-select 2.2.0

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11.102 ember-qunit 4.1.2
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11.103 ember-radio-buttons 4.1.0

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11.104 ember-resolver 5.0.1

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11.105 ember-simple-auth 1.2.2

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11.106 ember-source 3.4.0

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11.107 ember-truth-helpers 2.1.0

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11.108 ember-uploader 0.3.11

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11.109 ember-useragent 0.3.0

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11.110 ember-validations 2.0.0.-alpha.5

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11.112 eslint 5.2.0

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11.114 eslint-formatter-friendly 6.0.0

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11.115 eslint-plugin-ember 5.2.0
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package com.hazelcast.security.permission;

public class ExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

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

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

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

        return mask;
    }
}
package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

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

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {

    private int hashcode;

    public ClusterPermission(String name) {
        super(name);
    }

    public PermissionCollection newPermissionCollection() {
        return new ClusterPermissionCollection(getClass());
    }

    @Override
    public int hashCode() {
        if (hashcode == 0) {
            final int prime = 31;
            int result = 1;
            if (getName() == null) {
                result = prime * result + 13;
            } else {
                result = prime * result + getName().hashCode();
            }
            hashcode = result;
        }
        return hashcode;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        ClusterPermission other = (ClusterPermission) obj;
        if (getName() == null && other.getName() != null) {
            return false;
        }
        if (!getName().equals(other.getName())) {
            return false;
        }
        return true;
    }
}
package com.hazelcast.security.permission;

public class AtomicLongPermission extends InstancePermission {

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

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

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

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

public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

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

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
                mask |= PUBLISH;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            } else if (ActionConstants.ACTION_UNBIND.equals(action)) {
                mask |= UNBIND;
            }
        }
        return mask;
    }

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     */
mask |= LISTEN;
}
}
return mask;
}
}
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 */
package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

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

    @Override
    public String getActions() {
        return "transaction";
    }
}

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*/

package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

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

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

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

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}
package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {

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

package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;

    // Other code

private static final int READ = 16;
private static final int LISTEN = 32;
private static final int LOCK = 64;
private static final int INDEX = 128;
private static final int INTERCEPT = 256;
private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

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

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

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }
    }
    return mask;
}

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*/

package com.hazelcast.security.permission;

public class ReplicatedMapPermission
    extends InstancePermission {
    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

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

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }
    }
    return mask;
}

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*/
package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {
    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

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

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

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}

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package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {
    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

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

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

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package com.hazelcast.security.permission;

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

public class DenyAllPermissionCollection extends PermissionCollection {

  public DenyAllPermissionCollection() {
  }

  @Override
  public void add(Permission permission) {
  }

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

  @Override
  public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
      @Override
      public boolean hasMoreElements() {
        return false;
      }
    }
  }
}
package com.hazelcast.security.permission;

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

public final class AllPermissions extends ClusterPermission {

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

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

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

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

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

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

    public final class AllPermissions extends ClusterPermission {

        public AllPermissions() {
            super("<all permissions>");
        }
public boolean implies(Permission permission) {
    return true;
}

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

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

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

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

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

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

    public AllPermissionsCollection() {
    }

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

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

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

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

        @Override
        public Permission nextElement() {
            more = false;
            return ALL_PERMISSIONS;
        }
    };
}

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

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

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

public class SemaphorePermission extends InstancePermission {

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

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

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

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

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

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

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package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

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

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

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
    }
}
package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

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

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

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

            }
        }
        return mask;
    }
}
mask |= PUT;
} else if (ActionConstants.ACTION_REMOVE.equals(action)) {
    mask |= REMOVE;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}
}
return mask;
}

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 */

package com.hazelcast.security.permission;

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

public class ClusterPermissionCollection extends PermissionCollection {
    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

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

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

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

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

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

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

    public LockPermission(String key, String... actions) {

        }
super(key, actions);
}

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

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

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*/
package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

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

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

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

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}

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 */
package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

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

    @Override
    public String getActions() {
        return "transaction";
    }
}

package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
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    public String getActions() {
        return "transaction";
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    }
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package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

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

    @Override
    public String getActions() {
        return "transaction";
    }
}
import java.security.PermissionCollection;
import java.util.Enumeration;

public final class AllPermissions extends ClusterPermission {

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

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

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

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

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

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

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

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

        public AllPermissionsCollection() {
            
        }

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

        private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
        private boolean all;

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

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

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

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

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

        @Override
        public Permission nextElement() {
            more = false;
            return ALL_PERMISSIONS;
        }
    };
}

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

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    if (getClassName() != obj.getClass()) {
        return false;
    }
    return true;
}
package com.hazelcast.security.permission;

public class CountDownLatchPermission extends InstancePermission {

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

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

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

            AllPermissionsCollection other = (AllPermissionsCollection) obj;
            return all == other.all;
        }

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

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     */

    package com.hazelcast.security.permission;
mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_MODIFY.equals(action)) {
    mask |= MODIFY;
}

return mask;

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 */

package com.hazelcast.security.permission;

public class LockPermission extends InstancePermission {

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

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

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

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

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/*----------------------------------------------------------------*/

package com.hazelcast.security.permission;

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

    private static final int ALL = CREATE | DESTROY;

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

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

package com.hazelcast.security.permission;

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

    private static final int ALL = CREATE | DESTROY;

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

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

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package com.hazelcast.security.permission;

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

    private static final int ALL = CREATE | DESTROY;

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

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

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

package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

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

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

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

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     */
if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_PUT.equals(action)) {
    mask |= PUT;
} else if (ActionConstants.ACTION_REMOVE.equals(action)) {
    mask |= REMOVE;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}

return mask;
}
package com.hazelcast.security.permission;

public class ExecutorServicePermission extends InstancePermission {

  private static final int ALL = CREATE | DESTROY;

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

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

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 */
package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

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

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

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
                mask |= PUBLISH;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }

        return mask;
    }

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package com.hazelcast.security.permission;

public class ReplicatedMapPermission
    extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

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

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

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        }

        return mask;
    }
}
null
final StringBuilder s = new StringBuilder();
for (String action : actions) {
    s.append(action).append(" ");
}
this.actions = s.toString();

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

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

    InstancePermission that = (InstancePermission) permission;

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

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

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

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

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }

    if (obj instanceof Permission) {
        Permission that = (Permission) obj;

        return ((this.mask & that.mask) == that.mask) &&
               (this.getClass() == that.getClass()) &&
               (this.getName().equals(that.getName()));
    }

    return false;
}
if (obj == null) {
    return false;
}
if (getClass() != obj.getClass()) {
    return false;
}
InstancePermission other = (InstancePermission) obj;
if (getName() == null && other.getName() != null) {
    return false;
}
if (!getName().equals(other.getName())) {
    return false;
}
if (mask != other.mask) {
    return false;
}
return true;

package com.hazelcast.security.permission;

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

public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
    }

    @Override

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     */

    package com.hazelcast.security.permission;

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

    public class DenyAllPermissionCollection extends PermissionCollection {

        public DenyAllPermissionCollection() {
        }

        @Override


public void add(Permission permission) {
}

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

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

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

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

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

@Override
public boolean equals(Object obj) {
    return obj instanceof DenyAllPermissionCollection;
}
} /*
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package com.hazelcast.security.permission;

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

public class ClusterPermissionCollection extends PermissionCollection {

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

    public ClusterPermissionCollection() {
        permClass = null;
    }

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

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

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

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

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

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

@Override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "]";
}
package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.map.impl.MapService;
import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

public final class ActionConstants {

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

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

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

static {
    PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new QueuePermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MultiMapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new ListPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new SetPermission(name, actions);
        }
    });
}
PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});

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

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

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

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

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

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

PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});

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

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

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

private ActionConstants() {
}

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

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

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*/

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {

    private int hashcode;

    public ClusterPermission(String name) {
        super(name);
    }

    public PermissionCollection newPermissionCollection() {
        return new ClusterPermissionCollection(getClass());
    }

    @Override
    public int hashCode() {
        if (hashcode == 0) {
            final int prime = 31;
            int result = 1;
            if (getName() == null) {
                result = prime * result + 13;
            } else {
                result = prime * result + getName().hashCode();
            }
        }
        return result;
    }
}
public class SetPermission extends ListPermission {
    
    public SetPermission(String name, String... actions) {
        
    }
    
    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        ClusterPermission other = (ClusterPermission) obj;
        if (getName() == null && other.getName() != null) {
            return false;
        }
        if (!getName().equals(other.getName())) {
            return false;
        }
        return true;
    }
    
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    */
    
    package com.hazelcast.security.permission;

    public class SetPermission extends ListPermission {

        public SetPermission(String name, String... actions) {

            hashCode = result;
        }
        return hashCode;
    }

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

    */

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    */

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        return hashCode;
    }

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

    */
super(name, actions);
}
}

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 */

package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {
  private static final int ALL = CREATE | DESTROY;

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

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

      if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
      } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
      }
    }
    return mask;
  }
}
package com.hazelcast.security.permission;

public class AtomicReferencePermission extends InstancePermission {

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

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

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

public class AtomicLongPermission extends InstancePermission {

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

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

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

public class MultiMapPermission extends MapPermission {

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

package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

    public RingBufferPermission(Class clazz, String name, String... actions) {
        super(clazz, name, actions);
    }
}

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 */

package com.hazelcast.security.permission;
private static final int PUT = 4;
private static final int READ = 8;
private static final int ALL = PUT | READ;

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

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

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

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 */

package com.hazelcast.security.permission;
public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

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

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

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_INDEX.equals(action)) {
                mask |= INDEX;
            } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
                mask |= INTERCEPT;
            }
        }

        return mask;
    }
}
package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {

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

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

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

package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;
    private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

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

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

11.126 HdrHistogram 2.1.9

11.126.1 Available under license:

11.127 Hibernate Commons Annotations

4.0.2.Final
11.127.1 Available under license:

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11.129 hibernate-jpa-2.0-api 1.0.1.Final

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11.130 hibernate-validator 6.0.14.Final

11.131 highlight.9.1.0.-withoutTest 9.1.0

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11.132 http-proxy 1.16.2

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11.136 ip-address 4.2.0

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11.137 jackson-annotations 2.9.9

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11.138 jackson-core 2.9.9

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11.145 java-uuid-generator 3.1.0

11.146 javaassist 3.18.2-GA

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11.151 javers-core 2.9.2

11.152 JBoss Logging 3 3.1.3.GA

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11.153 JBoss Transaction API 1.1 spec

1.0.1.Final

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11.164 JLDAP 2009-10-07

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11.167 jPowerShell 1.9

11.168 jProcesses 1.6.4

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11.174 jquery-highlight 3.4.0

11.175 jquery-tagit 2.0
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11.176 jquery.slideto 1

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#!/usr/bin/env node

var https = require('https');
var path = require('path');
var fs = require('fs');
var argv = require('optimist').argv;
var request = require('request');

function split_equal(array, length) {
    var result = [];
    var len = array.length;
    if (len < length) {
        return [array];
    } else if (length < 0) {
        throw new Error("split_equal: length can't be negative");
    }
    for (var i = 0; i < len; i += length) {
        result.push(array.slice(i, i + length));
    }
    return result;
}
function get(url, query) {
    var options = {
        url: url,
        qs: query,
        headers: {
            'User-Agent': 'Node.js'
        }
    );
    if (argv.auth) {
        options.auth = argv.auth;
    }
    return new Promise(function(resolve, reject) {
        request(options, function(error, res, body) {
            if (res.statusCode == 200) {
                resolve(JSON.parse(body));
            } else if (+res.headers['x-ratelimit-remaining'] == 0) {
                var date = new Date(+res.headers['x-ratelimit-reset']*1000);
                reject('Rate limit until ' + date);
            } else {
                reject('Error code ' + res.statusCode);
            }
        });
    });
}

if (argv.u && argv.r) {
    var user = argv.u;
    var repo = argv.r;
    var path = '/repos/' + user + '/' + repo + '/contributors';
    var query = {
        "per_page": 100
    );
    if (argv.t) {
        query['access_token'] = argv.t;
    }
    get('https://api.github.com' + path, query).then(function(contributors) {
        return Promise.all(contributors.map(function(contributor) {
            var path = contributor.url.replace(/https://[^/]+/, '');
            return get('https://api.github.com' + path, query).then(function(user) {
                if (user.name || user.login) {
                    var object = {
                        name: user.name || user.login
                    );
                    if (user.email) {
                        object.email = user.email;
                    }
                }
            });
        }));
    });
}
if (user.blog) {
    object.url = user.blog;
} else {
    object.url = "https://github.com/" + user.login
}

if (argv.m) {
    object.avatar = contributor.avatar_url;
    object.login = user.login;
}

return object;
});
}).filter(Boolean));
}).then(function(contributors) {
    if (argv.m) {
        var split = split_equal(contributors, 7);
        var align = new Array(split[0].length + 1).join('| :---: ') + ' |' +
        ' |<img src="" + contributor.avatar + '" width="100px;"/>' +
        '<br />&lt;sub&gt;' + contributor.name + '</br>&lt;/sub&gt;' +
        contributor.url + '
        &lt;br&gt;[commits](https://github.com/jcubic/jquery.terminal/commits?author=' +
        contributor.login + ')';
        rows.splice(1, 0, align);
    } else {
        console.log(rows.join('n'));
    }
}).catch(function(error) {
    console.log('ERROR: ' + error);
});
else {
    console.log('usage: 
' + path.basename(process.argv[1]) + '-u <user> -r <repo> ' +
        '[--auth githubUsername:githubPassword] [-m]');
}

11.178 jquery.wiggle 1

11.179 js-sha256 0.9.0
11.179.1 Available under license :
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11.180 js-yaml 3.4.6

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11.181 json-path 2.2.0

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11.182 json-smart 2.2.1

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11.185 jsr107cache 1.0

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11.186 jsr250-api-1.0 1.0

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   analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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11.211 moment 2.10.6

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11.214 mongo-java-driver 2.13.0
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 */

package com.mongodb.util;

import java.util.ArrayList;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
import java.util.concurrent.Semaphore;
import java.util.concurrent.TimeUnit;

/**<p>
 * @deprecated This class is NOT a part of public API and will be dropped in 3.x versions.
 */
@Deprecated
public abstract class SimplePool<T> { 

/**
 * Initializes a new pool of objects.
 *
 * @param name name for the pool
 * @param size max to hold to at any given time. if &lt; 0 then no limit
 */
public SimplePool(String name, int size) { 


_name = name;
_size = size;
_sem = new Semaphore(size);
}

/**
 * Creates a new object of this pool's type. Implementations should throw a runtime exception if unable to create.
 *
 * @return the new object.
 */
protected abstract T createNew();

/**
 * Override this if you need to do any cleanup
 *
 * @param t the object that was added
 */
public void cleanup( T t ) {
}

/**
 * Pick a member of _avail. This method is called with a lock held on _avail, so it may be used safely.
 *
 * @param recommended the recommended member to choose.
 * @param couldCreate true if there is room in the pool to create a new object
 * @return >= 0 the one to use, -1 create a new one
 */
protected int pick( int recommended , boolean couldCreate ){
    return recommended;
}

/**
 * Call done when you are done with an object form the pool. If there is room and the object is ok will get added
 *
 * @param t Object to add
 */
public void done( T t ){
    synchronized ( this ) {
        if (_closed) {
            cleanup(t);
            return;
        }
        assertConditions();

        if (!_out.remove(t)) {
            throw new RuntimeException("trying to put something back in the pool wasn't checked out");
        }
    }
}
_avail.add(t);

} _sem.release();

private void assertConditions() {
    assert getTotal() <= getMaxSize();
}

public void remove( T t ) {
    done(t);
}

/**
 * Gets an object from the pool - will block if none are available
 * @return An object from the pool
 */
public T get() throws InterruptedException {
    return get(-1);
}

/**
 * Gets an object from the pool - will block if none are available
 * @param waitTime negative - forever 0        - return immediately no matter what positive ms to wait
 * @return An object from the pool, or null if can't get one in the given waitTime
 */
public T get(long waitTime) throws InterruptedException {
    if (!permitAcquired(waitTime)) {
        return null;
    }

    synchronized (this) {
        assertConditions();

        int toTake = pick(_avail.size() - 1, getTotal() < getMaxSize());
        T t;
        if (toTake >= 0) {
            t = _avail.remove(toTake);
        } else {
            t = createNewAndReleasePermitIfFailure();
        }
        _out.add(t);
    }
}
private T createNewAndReleasePermitIfFailure() {
    try {
        T newMember = createNew();
        if (newMember == null) {
            throw new IllegalStateException("null pool members are not allowed");
        }
        return newMember;
    } catch (RuntimeException e) {
        _sem.release();
        throw e;
    } catch (Error e) {
        _sem.release();
        throw e;
    }
}

private boolean permitAcquired(final long waitTime) throws InterruptedException {
    if (waitTime > 0) {
        return _sem.tryAcquire(waitTime, TimeUnit.MILLISECONDS);
    } else if (waitTime < 0) {
        _sem.acquire();
        return true;
    } else {
        return _sem.tryAcquire();
    }
}

/** Clears the pool of all objects. */
protected synchronized void close() {
    _closed = true;
    for (T t : _avail)
        cleanup(t);
    _avail.clear();
    _out.clear();
}

public String getName() {
    return _name;
}

public synchronized int getTotal() {
    return _avail.size() + _out.size();
}
public synchronized int getInUse() {
    return _out.size();
}

public synchronized int getAvailable() {
    return _avail.size();
}

public int getMaxSize() {
    return _size;
}

public synchronized String toString() {
    StringBuilder buf = new StringBuilder();
    buf.append("pool: ").append(_name)
        .append(" maxToKeep: ").append(_size)
        .append(" avail ").append(_avail.size())
        .append(" out ").append(_out.size())
    ;
    return buf.toString();
}

protected final String _name;
protected final int _size;

protected final List<T> _avail = new ArrayList<T>();
protected final Set<T> _out = new HashSet<T>();
private final Semaphore _sem;
private boolean _closed;

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 */

package com.mongodb;
import com.mongodb.util.JSON;
import org.bson.io.PoolOutputBuffer;
import org.bson.types.ObjectId;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.Comparator;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.TreeMap;
import java.util.logging.Level;
import java.util.logging.Logger;
import static com.mongodb.QueryResultIterator.chooseBatchSize;
import static com.mongodb.WriteCommandResultHelper.getBulkWriteException;
import static com.mongodb.WriteCommandResultHelper.getBulkWriteResult;
import static com.mongodb.WriteCommandResultHelper.hasError;
import static com.mongodb.WriteRequest.Type.INSERT;
import static com.mongodb.WriteRequest.Type.REMOVE;
import static com.mongodb.WriteRequest.Type.REPLACE;
import static com.mongodb.WriteRequest.Type.UPDATE;
import static java.lang.String.format;
import static java.util.Arrays.asList;
import static org.bson.util.Assertions.isTrue;

@SuppressWarnings("deprecation")
class DBCollectionImpl extends DBCollection {

    // Add an extra 16K to the maximum allowed size of a query document, so that, for example,
    // a 16M document can be upserted via findAndModify
    private static final int QUERY_DOCUMENT_HEADROOM = 16 * 1024;

    private final DBApiLayer db;
    private final String namespace;

    DBCollectionImpl(final DBApiLayer db, String name){
        super(db, name);
        namespace = db._root + "." + name;
        this.db = db;
    }

    @Override
    QueryResultIterator find(DBObject ref, DBObject fields, int numToSkip, int batchSize, int limit, int options,
            ReadPreference readPref, DBDecoder decoder) {
        return find(ref, fields, numToSkip, batchSize, limit, options, readPref, decoder,
    }
DefaultDBEncoder.FACTORY.create();

@Override
QueryResultIterator find(DBObject ref, DBOBJECT fields, int numToSkip, int batchSize, int limit, int options,
                    ReadPreference readPref, DBDecoder decoder, DBEncoder encoder) {

    if (ref == null) {
        ref = new BasicDBObject();
    }

    if (willTrace()) {
        trace("find: " + namespace + " " + JSON.serialize(ref));
    }

    OutMessage query = OutMessage.query(this, options, numToSkip, chooseBatchSize(batchSize, limit, 0), ref,
                                   fields, readPref,
                                   encoder, db.getMongo().getMaxBsonObjectSize() + QUERY_DOCUMENT_HEADROOM);

    Response res = db.getConnector().call(_db, this, query, null, 2, readPref, decoder);

    return new QueryResultIterator(this.namespace, db.getMongo(), res, batchSize, limit, decoder);
}

public Cursor aggregate(final List<DBObject> pipeline, final AggregationOptions options,
                  final ReadPreference readPreference) {

    if(options == null) {
        throw new IllegalArgumentException("options can not be null");
    }

    DBOBJECT last = pipeline.get(pipeline.size() - 1);

    DBOBJECT command = prepareCommand(pipeline, options);

    final CommandResult res = _db.command(command, getOptions(), readPreference);
    res.throwOnError();

    String outCollection = (String) last.get("$out");
    if (outCollection != null) {
        DBCollection collection = _db.getCollection(outCollection);
        return new DBCursor(collection, new BasicDBObject(), null, ReadPreference.primary());
    } else {
        Integer batchSize = options.getBatchSize();
        return new QueryResultIterator(res, db.getMongo(), batchSize == null ? 0 : batchSize, getDecoder(),
                        res.getServerUsed());
    }
}
@Override
@SuppressWarnings("unchecked")
public List<Cursor> parallelScan(final ParallelScanOptions options) {
    CommandResult res = _db.command(new BasicDBObject("parallelCollectionScan", getName())
            .append("numCursors", options.getNumCursors()),
            options.getReadPreference());
    res.throwOnError();

    List<Cursor> cursors = new ArrayList<Cursor>();
    for (DBObject cursorDocument : (List<DBObject>) res.get("cursors")) {
        cursors.add(new QueryResultIterator(cursorDocument, db.getMongo(), options.getBatchSize(), getDecoder(),
                res.getServerUsed()));
    }

    return cursors;
}

@override
BulkWriteResult executeBulkWriteOperation(final boolean ordered, final List<WriteRequest> writeRequests,
        WriteConcern writeConcern, DBEncoder encoder) {
    isTrue("no operations", !writeRequests.isEmpty());

    if (writeConcern == null) {
        throw new IllegalArgumentException("Write concern can not be null");
    }

    writeConcern = writeConcern.continueOnError(!ordered);

    if (encoder == null) {
        encoder = DefaultDBEncoder.FACTORY.create();
    }

    DBPort port = db.getConnector().getPrimaryPort();
    try {
        BulkWriteBatchCombiner bulkWriteBatchCombiner = new BulkWriteBatchCombiner(port.getAddress(),
                writeConcern);
        for (Run run : getRunGenerator(ordered, writeRequests, writeConcern, encoder, port)) {
            try {
                BulkWriteResult result = run.execute(port);
                if (result.isAcknowledged()) {
                    bulkWriteBatchCombiner.addResult(result, run.indexMap);
                }
            } catch (BulkWriteException e) {
                bulkWriteBatchCombiner.addErrorResult(e, run.indexMap);
                if (bulkWriteBatchCombiner.shouldStopSendingMoreBatches()) {
                    break;
                }
            }
        }
    } finally {
        if (writeConcern != null) {
            writeConcern.close();
        }
    }
public WriteResult insert(List<DBObject> list, WriteConcern concern, DBEncoder encoder ){
    return insert(list, true, concern, encoder);
}

protected WriteResult insert(List<DBObject> list, boolean shouldApply , WriteConcern concern, DBEncoder encoder ){
    if (concern == null) {
        throw new IllegalArgumentException("Write concern can not be null");
    }
    if (encoder == null)
        encoder = DefaultDBEncoder.FACTORY.create();

    if ( willTrace() ) {
        for (DBObject o : list) {
            trace("save: " + namespace + " " + JSON.serialize(o));
        }
    }

    DBPort port = db.getConnector().getPrimaryPort();
    try {
        if (useWriteCommands(concern, port)) {
            try {
                return translateBulkWriteResult(insertWithCommandProtocol(list, concern, encoder, port,
                        shouldApply), INSERT, concern,
                        port.getAddress());
            } catch (BulkWriteException e) {
                throw translateBulkWriteException(e, INSERT);
            }
        } else {
            return insertWithWriteProtocol(list, concern, encoder, port, shouldApply);
        }
    } finally {
        db.getConnector().releasePort(port);
    }
}

public WriteResult remove( DBObject query, WriteConcern concern, DBEncoder encoder ) {
    return remove(query, true, concern, encoder);
}
public WriteResult remove( DBObject query, boolean multi, WriteConcern concern, DBEncoder encoder ){
    if (concern == null) {
        throw new IllegalArgumentException("Write concern can not be null");
    }

    if (encoder == null) {
        encoder = DefaultDBEncoder.FACTORY.create();
    }

    if (willTrace()) {
        trace("remove: "+ namespace + " + JSON.serialize(query));
    }

    DBPort port = db.getConnector().getPrimaryPort();
    try {
        if (useWriteCommands(concern, port)) {
            try {
                return translateBulkWriteResult(removeWithCommandProtocol(Arrays.asList(new
                    RemoveRequest(query, multi)),
                        concern,
                        encoder,
                        port), REMOVE, concern, port.getAddress());
            } catch (BulkWriteException e) {
                throw translateBulkWriteException(e, REMOVE);
            }
        } else {
            return db.getConnector().say(_db, OutMessage.remove(this, encoder, query, multi), concern, port);
        }
    } finally {
        db.getConnector().releasePort(port);
    }
}

@Override
public WriteResult update( DBObject query , DBObject o , boolean upsert , boolean multi , WriteConcern concern,
                          DBEncoder encoder ) {
    if (o == null) {
        throw new IllegalArgumentException("update can not be null");
    }

    if (concern == null) {
        throw new IllegalArgumentException("Write concern can not be null");
    }
if (encoder == null)
    encoder = DefaultDBEncoder.FACTORY.create();

if (!o.keySet().isEmpty()) {
    // if 1st key doesn't start with $, then object will be inserted as is, need to check it
    String key = o.keySet().iterator().next();
    if (!key.startsWith("$"))
        _checkObject(o, false, false);
}

if ( willTrace() ) {
    trace("update: " + namespace + " " + JSON.serialize(query) + " " + JSON.serialize(o));
}

DBPort port = db.getConnector().getPrimaryPort();
try {
    if (useWriteCommands(concern, port)) {
        try {
            BulkWriteResult bulkWriteResult =
                updateWithCommandProtocol(Arrays.asList(new UpdateRequest(query, upsert, o, multi)),
                concern, encoder, port);
            return translateBulkWriteResult(bulkWriteResult, UPDATE, concern, port.getAddress());
        } catch (BulkWriteException e) {
            throw translateBulkWriteException(e, UPDATE);
        }
    } else {
        return db.getConnector().say(_db, OutMessage.update(this, encoder, upsert, multi, query, o), concern, port);
    }
} finally {
    db.getConnector().releasePort(port);
}

@Override
public void drop(){
    db._collections.remove(getName());
    super.drop();
}

public void doapply( DBObject o ){

    private WriteResult translateBulkWriteResult(final BulkWriteResult bulkWriteResult, final WriteRequest.Type type,
final WriteConcern writeConcern, final ServerAddress serverAddress) {
    CommandResult commandResult = new CommandResult(serverAddress);
    addBulkWriteResultToCommandResult(bulkWriteResult, type, commandResult);
    return new WriteResult(commandResult, writeConcern);
}

private MongoException translateBulkWriteException(final BulkWriteException e, final WriteRequest.Type type) {
    BulkWriteError lastError = e.getWriteErrors().isEmpty() ? null : e.getWriteErrors().get(e.getWriteErrors().size() - 1);
    CommandResult commandResult = new CommandResult(e.getServerAddress());
    addBulkWriteResultToCommandResult(e.getWriteResult(), type, commandResult);
    if (e.getWriteConcernError() != null) {
        commandResult.putAll(e.getWriteConcernError().getDetails());
    }
    if (lastError != null) {
        commandResult.put("err", lastError.getMessage());
        commandResult.put("code", lastError.getCode());
        commandResult.putAll(lastError.getDetails());
    } else if (e.getWriteConcernError() != null) {
        commandResult.put("err", e.getWriteConcernError().getMessage());
        commandResult.put("code", e.getWriteConcernError().getCode());
    }
    return commandResult.getException();
}

private void addBulkWriteResultToCommandResult(final BulkWriteResult bulkWriteResult, final WriteRequest.Type type, final CommandResult commandResult) {
    commandResult.put("ok", 1);
    if (type == INSERT) {
        commandResult.put("n", 0);
    } else if (type == REMOVE) {
        commandResult.put("n", bulkWriteResult.getRemovedCount());
    } else if (type == UPDATE || type == REPLACE) {
        commandResult.put("n", bulkWriteResult.getMatchedCount() + bulkWriteResult.getUpserts().size());
        if (bulkWriteResult.getMatchedCount() > 0) {
            commandResult.put("updatedExisting", true);
        } else {
            commandResult.put("updatedExisting", false);
        }
        if (!bulkWriteResult.getUpserts().isEmpty()) {
            commandResult.put("upserted", bulkWriteResult.getUpserts().get(0).getId());
        }
    }
}
@SuppressWarnings("unchecked")
public List<DBObject> getIndexInfo() {
getDB().requestStart();
try {
List<DBObject> list = new ArrayList<DBObject>();

if (db.isServerVersionAtLeast(asList(3, 0, 0))) {
    CommandResult res = _db.command(new BasicDBObject("listIndexes", getName()),
    ReadPreference.primary());
    if (!res.ok() && res.getCode() == 26) {
        return list;
    }
    res.throwOnError();

    QueryResultIterator iterator = new QueryResultIterator(res, db.getMongo(), 0,
    DefaultDBDecoder.FACTORY.create(),
    res.getServerUsed());
    try {
        while (iterator.hasNext()) {
            DBOBJECT collectionInfo = iterator.next();
            list.add(collectionInfo);
        }
    } finally {
        iterator.close();
    }
} else {
    BasicDBObject cmd = new BasicDBObject("ns", getFullName());
    DBCursor cur = _db.getCollection("system.indexes").find(cmd).setReadPreference(ReadPreference.primary());
    while (cur.hasNext()) {
        list.add(cur.next());
    }
}

return list;
} finally {
getDB().requestDone();
}
}

public void createIndex(final DBOBJECT keys, final DBOBJECT options, DBEncoder encoder) {
    DBTCPConnector connector = db.getConnector();
    final DBPort port = db.getConnector().getPrimaryPort();

    try {
        DBOBJECT index = defaultOptions(keys);
        index.putAll(options);
        index.put("key", keys);
        ...
if (port.getServerVersion().compareTo(new ServerVersion(2, 6)) >= 0) {
    final BasicDBObject createIndexes = new BasicDBObject("createIndexes", getName());

    BasicDBList list = new BasicDBList();
    list.add(index);
    createIndexes.put("indexes", list);

    CommandResult commandResult = connector.doOperation(db, port, new DBPort.Operation<CommandResult>() {
        @Override
        public CommandResult execute() throws IOException {
            return port.runCommand(db, createIndexes);
        }
    });
    try {
        commandResult.throwOnError();
    } catch (CommandFailureException e) {
        if(e.getCode() == 11000) {
            throw new MongoException.DuplicateKey(commandResult);
        } else {
            throw e;
        }
    }
}

private BulkWriteResult insertWithCommandProtocol(final List<DBObject> list, final WriteConcern writeConcern, final DBPort port, final boolean shouldApply) {
    if (shouldApply){
        applyRulesForInsert(list);
    }

    BaseWriteCommandMessage message = new InsertCommandMessage(getNamespace(), writeConcern, list,
    DefaultDBEncoder.FACTORY.create(), encoder, getMessageSettings(port));
    return writeWithCommandProtocol(port, INSERT, message, writeConcern);
}

private void applyRulesForInsert(final List<DBObject> list) {


for (DBObject o : list) {
    _checkObject(o, false, false);
    apply(o);
    Object id = o.get("_id");
    if (id instanceof ObjectId) {
        ((ObjectId) id).notNew();
    }
}

private BulkWriteResult removeWithCommandProtocol(final List<RemoveRequest> removeList,
            final WriteConcern writeConcern,
            final DBEncoder encoder, final DBPort port) {
    BaseWriteCommandMessage message = new DeleteCommandMessage(getNamespace(), writeConcern, removeList,
        DefaultDBEncoder.FACTORY.create(), encoder,
        getMessageSettings(port));
    return writeWithCommandProtocol(port, REMOVE, message, writeConcern);
}

@SuppressWarnings("unchecked")
private BulkWriteResult updateWithCommandProtocol(final List<ModifyRequest> updates,
            final WriteConcern writeConcern,
            final DBEncoder encoder, final DBPort port) {
    BaseWriteCommandMessage message = new UpdateCommandMessage(getNamespace(), writeConcern, updates,
        DefaultDBEncoder.FACTORY.create(), encoder,
        getMessageSettings(port));
    return writeWithCommandProtocol(port, UPDATE, message, writeConcern);
}

private BulkWriteResult writeWithCommandProtocol(final DBPort port, final WriteRequest.Type type, final
            BaseWriteCommandMessage message,
            final WriteConcern writeConcern) {
    return db.getConnector().doOperation(db, port, new DBPort.Operation<BulkWriteResult>() {
        @Override
        public BulkWriteResult execute() throws IOException {
            BaseWriteCommandMessage curMessage = message;
            int batchNum = 0;
            int currentRangeStartIndex = 0;
            BulkWriteBatchCombiner bulkWriteBatchCombiner = new BulkWriteBatchCombiner(port.getAddress(),
                writeConcern);
            do {
                batchNum++;
                BaseWriteCommandMessage nextMessage = sendWriteCommandMessage(curMessage, batchNum,
                    port);
                int itemCount = nextMessage != null ? curMessage.getItemCount() - nextMessage.getItemCount()
                    : curMessage.getItemCount();
                ...
IndexMap indexMap = IndexMap.create(currentRangeStartIndex, itemCount);
CommandResult commandResult = receiveWriteCommandMessage(port);
if (willTrace() && nextMessage != null || batchNum > 1) {
    getLogger().fine(format("Received response for batch %d", batchNum));
}

if (hasError(commandResult)) {
    bulkWriteBatchCombiner.addErrorResult(getBulkWriteException(type, commandResult), indexMap);
} else {
    bulkWriteBatchCombiner.addResult(getBulkWriteResult(type, commandResult), indexMap);
}
currentRangeStartIndex += itemCount;
curMessage = nextMessage;
} while (curMessage != null && !bulkWriteBatchCombiner.shouldStopSendingMoreBatches());

return bulkWriteBatchCombiner.getResult();

private boolean useWriteCommands(final WriteConcern concern, final DBPort port) {
    return concern.callGetLastError() && port.getServerVersion().compareTo(new ServerVersion(2, 6)) >= 0;
}

private MessageSettings getMessageSettings(final DBPort port) {
    ServerDescription serverDescription = db.getConnector().getServerDescription(port.getAddress());
    return MessageSettings.builder()
        .maxDocumentSize(serverDescription.getMaxDocumentSize())
        .maxMessageSize(serverDescription.getMaxMessageSize())
        .maxWriteBatchSize(serverDescription.getMaxWriteBatchSize())
        .build();
}

private int getMaxWriteBatchSize(final DBPort port) {
    return db.getConnector().getServerDescription(port.getAddress()).getMaxWriteBatchSize();
}

private MongoNamespace getNamespace() {
    return new MongoNamespace(getDB().getName(), getName());
}

private BaseWriteCommandMessage sendWriteCommandMessage(final BaseWriteCommandMessage message,
    final int batchNum,
    final DBPort port) throws IOException {
    final PoolOutputBuffer buffer = new PoolOutputBuffer();
try {
    BaseWriteCommandMessage nextMessage = message.encode(buffer);
    if (nextMessage != null || batchNum > 1) {
        getLogger().fine(format("Sending batch %d", batchNum));
    } else
        buffer.pipe(port.getOutputStream());
    return nextMessage;
} finally {
    buffer.reset();
}

private CommandResult receiveWriteCommandMessage(final DBPort port) throws IOException {
    Response response = new Response(port.getAddress(), null, port.getInputStream(),
            DefaultDBDecoder.FACTORY.create());
    CommandResult writeCommandResult = new CommandResult(port.getAddress());
    writeCommandResult.putAll(response.get(0));
    writeCommandResult.throwOnError();
    return writeCommandResult;
}

private WriteResult insertWithWriteProtocol(final List<DBObject> list, final WriteConcern concern, final
        DBEncoder encoder,
        final DBPort port, final boolean shouldApply) {
    if ( shouldApply ){
        applyRulesForInsert(list);
    }

    WriteResult last = null;

    int cur = 0;
    int maxsize = db._mongo.getMaxBsonObjectSize();
    while ( cur < list.size() ) {

        OutMessage om = OutMessage.insert( this , encoder, concern );

        for ( ; cur < list.size(); cur++ ){
            DBObject o = list.get(cur);
            om.putObject( o );

            // limit for batch insert is 4 x maxbson on server, use 2 x to be safe
            if ( om.size() > 2 * maxsize ){
                cur++;
                break;
            }
        }
    }
private Iterable<Run> getRunGenerator(final boolean ordered, final List<WriteRequest> writeRequests, final WriteConcern writeConcern, final DBEncoder encoder, final DBPort port) {
    if (ordered) {
        return new OrderedRunGenerator(writeRequests, writeConcern, encoder, port);
    } else {
        return new UnorderedRunGenerator(writeRequests, writeConcern, encoder, port);
    }
}

private static final Logger TRACE_LOGGER = Logger.getLogger("com.mongodb.TRACE");
private static final Level TRACE_LEVEL = Boolean.getBoolean("DB.TRACE") ? Level.INFO : Level.FINEST;

private boolean willTrace() {
    return TRACE_LOGGER.isLoggable(TRACE_LEVEL);
}

private void trace(String s) {
    TRACE_LOGGER.log(TRACE_LEVEL, s);
}

private Logger getLogger() {
    return TRACE_LOGGER;
}

private class OrderedRunGenerator implements Iterable<Run> {
    private final List<WriteRequest> writeRequests;
    private final WriteConcern writeConcern;
    private final DBEncoder encoder;
    private final int maxBatchWriteSize;

    public OrderedRunGenerator(final List<WriteRequest> writeRequests, final WriteConcern writeConcern, final DBEncoder encoder, final DBPort port) {
        this.writeRequests = writeRequests;
        this.writeConcern = writeConcern.continueOnError(false);
        this.encoder = encoder;
        this.maxBatchWriteSize = getMaxWriteBatchSize(port);
    }

    @Override
    public Iterator<Run> iterator() {
        return new Iterator<Run>() {
            // Implementation of Iterator interface...
        };
    }
}
private int curIndex;

@Override
public boolean hasNext() {
    return curIndex < writeRequests.size();
}

@Override
public Run next() {
    Run run = new Run(writeRequests.get(curIndex).getType(), writeConcern, encoder);
    int startIndexOfNextRun = getStartIndexOfNextRun();
    for (int i = curIndex; i < startIndexOfNextRun; i++) {
        run.add(writeRequests.get(i), i);
    }
    curIndex = startIndexOfNextRun;
    return run;
}

private int getStartIndexOfNextRun() {
    WriteRequest.Type type = writeRequests.get(curIndex).getType();
    for (int i = curIndex; i < writeRequests.size(); i++) {
        if (i == curIndex + maxBatchWriteSize || writeRequests.get(i).getType() != type) {
            return i;
        }
    }
    return writeRequests.size();
}

@Override
public void remove() {
    throw new UnsupportedOperationException("Not implemented");
}
}

private class UnorderedRunGenerator implements Iterable<Run> {
    private final List<WriteRequest> writeRequests;
    private final WriteConcern writeConcern;
    private final DBEncoder encoder;
    private final int maxBatchWriteSize;

    public UnorderedRunGenerator(final List<WriteRequest> writeRequests, final WriteConcern writeConcern,
                                 final DBEncoder encoder, final DBPort port) {
        this.writeRequests = writeRequests;
        this.writeConcern = writeConcern.continueOnError(true);
        this.encoder = encoder;
    
    private final List<WriteRequest> writeRequests;
    private final WriteConcern writeConcern;
    private final DBEncoder encoder;
    private final int maxBatchWriteSize;'
this.maxBatchWriteSize = getMaxWriteBatchSize(port);
}

@Override
public Iterator<Run> iterator() {
    return new Iterator<Run>() {
        private final Map<WriteRequest.Type, Run> runs =
            new TreeMap<WriteRequest.Type, Run>(new Comparator<WriteRequest.Type>() {
                @Override
                public int compare(final WriteRequest.Type first, final WriteRequest.Type second) {
                    return first.compareTo(second);
                }
            });

        private int curIndex;

        @Override
        public boolean hasNext() {
            return curIndex < writeRequests.size() || !runs.isEmpty();
        }

        @Override
        public Run next() {
            while (curIndex < writeRequests.size()) {
                WriteRequest writeRequest = writeRequests.get(curIndex);
                Run run = runs.get(writeRequest.getType());
                if (run == null) {
                    run = new Run(writeRequest.getType(), writeConcern, encoder);
                    runs.put(run.type, run);
                }
                run.add(writeRequest, curIndex);
                curIndex++;
                if (run.size() == maxBatchWriteSize) {
                    return runs.remove(run.type);
                }
            }
            return runs.remove(runs.keySet().iterator().next());
        }

        @Override
        public void remove() {
            throw new UnsupportedOperationException("Not implemented");
        }
    };
}

private class Run {

private final List<WriteRequest> writeRequests = new ArrayList<WriteRequest>();
private final WriteRequest.Type type;
private final WriteConcern writeConcern;
private final DBEncoder encoder;
private IndexMap indexMap;

Run(final WriteRequest.Type type, final WriteConcern writeConcern, final DBEncoder encoder) {
    this.type = type;
    this.indexMap = IndexMap.create();
    this.writeConcern = writeConcern;
    this.encoder = encoder;
}

@SuppressWarnings("unchecked")
void add(final WriteRequest writeRequest, final int originalIndex) {
    this.indexMap = indexMap.add(writeRequests.size(), originalIndex);
    writeRequests.add(writeRequest);
}

public int size() {
    return writeRequests.size();
}

@SuppressWarnings("unchecked")
BulkWriteResult execute(final DBPort port) {
    if (type == UPDATE) {
        return executeUpdates(getWriteRequestsAsModifyRequests(), port);
    } else if (type == REPLACE) {
        return executeReplaces(getWriteRequestsAsModifyRequests(), port);
    } else if (type == INSERT) {
        return executeInserts(getWriteRequestsAsInsertRequests(), port);
    } else if (type == REMOVE) {
        return executeRemoves(getWriteRequestsAsRemoveRequests(), port);
    } else {
        throw new MongoInternalException(format("Unsupported write of type %s", type));
    }
}

private List getWriteRequestsAsRaw() {
    return writeRequests;
}

@SuppressWarnings("unchecked")
private List<RemoveRequest> getWriteRequestsAsRemoveRequests() {
    return (List<RemoveRequest>) getWriteRequestsAsRaw();
}

@SuppressWarnings("unchecked")
private List<InsertRequest> getWriteRequestsAsInsertRequests() {
    return (List<InsertRequest>) getWriteRequestsAsRaw();
}

@SuppressWarnings("unchecked")
private List<ModifyRequest> getWriteRequestsAsModifyRequests() {
    return (List<ModifyRequest>) getWriteRequestsAsRaw();
}

BulkWriteResult executeUpdates(final List<ModifyRequest> updateRequests, final DBPort port) {
    for (ModifyRequest request : updateRequests) {
        for (String key : request.getUpdateDocument().keySet()) {
            if (!key.startsWith("$")) {
                throw new IllegalArgumentException("Update document keys must start with ": " + key);
            }
        }
    }

    return new RunExecutor(port) {
        @Override
        BulkWriteResult executeWriteCommandProtocol() {
            return updateWithCommandProtocol(updateRequests, writeConcern, encoder, port);
        }
    }
}

BulkWriteResult executeReplaces(final List<ModifyRequest> replaceRequests, final DBPort port) {
    for (ModifyRequest request : replaceRequests) {
        _checkObject(request.getUpdateDocument(), false, false);
    }

    return new RunExecutor(port) {
        @Override
        BulkWriteResult executeWriteCommandProtocol() {
            return updateWithCommandProtocol(replaceRequests, writeConcern, encoder, port);
        }
    }
}
@Override
WriteResult executeWriteProtocol(final int i) {
    ModifyRequest update = replaceRequests.get(i);
    WriteResult writeResult = update(update.getQuery(), update.getUpdateDocument(), update.isUpsert(),
                                    update.isMulti(), writeConcern, encoder);
    return addMissingUpserted(update, writeResult);
}

@Override
WriteRequest.Type getType() {
    return REPLACE;
}
}.execute();

BulkWriteResult executeRemoves(final List<RemoveRequest> removeRequests, final DBPort port) {
    return new RunExecutor(port) {
        @Override
        BulkWriteResult executeWriteCommandProtocol() {
            return removeWithCommandProtocol(removeRequests, writeConcern, encoder, port);
        }
        @Override
        WriteResult executeWriteProtocol(final int i) {
            RemoveRequest removeRequest = removeRequests.get(i);
            return remove(removeRequest.getQuery(), removeRequest.isMulti(), writeConcern, encoder);
        }
        @Override
        WriteRequest.Type getType() {
            return REMOVE;
        }
    }.execute();
}

BulkWriteResult executeInserts(final List<InsertRequest> insertRequests, final DBPort port) {
    return new RunExecutor(port) {
        @Override
        BulkWriteResult executeWriteCommandProtocol() {
            List<DBObject> documents = new ArrayList<DBObject>(insertRequests.size());
            for (InsertRequest cur : insertRequests) {
                documents.add(cur.getDocument());
            }
            return insertWithCommandProtocol(documents, writeConcern, encoder, port, true);
        }
    }
}
@Override
WriteResult executeWriteProtocol(final int i) {
    return insert(asList(insertRequests.get(i).getDocument()), writeConcern, encoder);
}

@Override
WriteRequest.Type getType() {
    return INSERT;
}
}
execute();

private abstract class RunExecutor {
    private final DBPort port;

    RunExecutor(final DBPort port) {
        this.port = port;
    }

    abstract BulkWriteResult executeWriteCommandProtocol();

    abstract WriteResult executeWriteProtocol(final int i);

    abstract WriteRequest.Type getType();

    BulkWriteResult getResult(final WriteResult writeResult) {
        int count = getCount(writeResult);
        List<BulkWriteUpsert> upsertedItems = getUpsertedItems(writeResult);
        Integer modifiedCount = (getType() == UPDATE || getType() == REPLACE) ? null : 0;
        return new AcknowledgedBulkWriteResult(getType(), count - upsertedItems.size(), modifiedCount,
                                                upsertedItems);
    }

    BulkWriteResult execute() {
        if (useWriteCommands(writeConcern, port)) {
            return executeWriteCommandProtocol();
        } else {
            return executeWriteProtocol();
        }
    }

    private BulkWriteResult executeWriteProtocol() {
        BulkWriteBatchCombiner bulkWriteBatchCombiner = new BulkWriteBatchCombiner(port.getAddress(),
                                                                                    writeConcern);
        for (int i = 0; i < writeRequests.size(); i++) {
            IndexMap indexMap = IndexMap.create(i, 1);
try {
    WriteResult writeResult = executeWriteProtocol(i);
    if (writeConcern.callGetLastError()) {
        bulkWriteBatchCombiner.addResult(getResult(writeResult), indexMap);
    }
} catch (WriteConcernException writeException) {
    if (isWriteConcernError(writeException.getCommandResult())) {
        bulkWriteBatchCombiner.addResult(getResult(new WriteResult(writeException.getCommandResult(), writeConcern)), indexMap);
        bulkWriteBatchCombiner.addWriteConcernErrorResult(getWriteConcernError(writeException.getCommandResult()));
    } else {
        bulkWriteBatchCombiner.addWriteErrorResult(getBulkWriteError(writeException), indexMap);
    }
    if (bulkWriteBatchCombiner.shouldStopSendingMoreBatches()) {
        break;
    }
}
return bulkWriteBatchCombiner.getResult();

private int getCount(final WriteResult writeResult) {
    return getType() == INSERT ? 1 : writeResult.getN();
}

List<BulkWriteUpsert> getUpsertedItems(final WriteResult writeResult) {
    return writeResult.getUpsertedId() == null ? Collections.<BulkWriteUpsert>emptyList() : asList(new BulkWriteUpsert(0, writeResult.getUpsertedId()));
}

private BulkWriteError getBulkWriteError(final WriteConcernException writeException) {
    return new BulkWriteError(writeException.getCode(),
        writeException.getCommandResult().getString("err"),
        getErrorResponseDetails(writeException.getCommandResult()),
        0);
}

// Accommodating GLE representation of write concern errors
private boolean isWriteConcernError(final CommandResult commandResult) {
    return commandResult.get("wtimeout") != null;
}

private WriteConcernError getWriteConcernError(final CommandResult commandResult) {
    return new WriteConcernError(commandResult.getCode(),
getWriteConcernErrorMessage(commandResult),
    getErrorResponseDetails(commandResult);
}

private String getWriteConcernErrorMessage(final CommandResult commandResult) {
    return commandResult.getString("err");
}

private DBObject getErrorResponseDetails(final DBObject response) {
    DBObject details = new BasicDBObject();
    for (String key : response.keySet()) {
        if (!asList("ok", "err", "code").contains(key)) {
            details.put(key, response.get(key));
        }
    }
    return details;
}

WriteResult addMissingUpserted(final ModifyRequest update, final WriteResult writeResult) {
    // On pre 2.6 servers upserts with custom _id's would be not be reported so we check if _id
    // was in the update query or the find query then massage the writeResult.
    if (update.isUpsert() && writeConcern.callGetLastError() && !writeResult.isUpdateOfExisting()
        && writeResult.getUpsertedId() == null) {
        DBObject updateDocument = update.getUpdateDocument();
        DBObject query = update.getQuery();
        if (updateDocument.containsField("_id")) {
            CommandResult commandResult = writeResult.getLastError();
            commandResult.put("upserted", updateDocument.get("_id"));
            return new WriteResult(commandResult, writeResult.getLastConcern());
        } else if (query.containsField("_id")) {
            CommandResult commandResult = writeResult.getLastError();
            commandResult.put("upserted", query.get("_id"));
            return new WriteResult(commandResult, writeResult.getLastConcern());
        }
    }
    return writeResult;
}

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 */
package com.mongodb;

class ReplaceRequest extends ModifyRequest {

    public ReplaceRequest(final DBObject query, final boolean upsert, final DBObject document) {
        super(query, upsert, document);
    }

    public DBObject getDocument() {
        return getUpdateDocument();
    }

    @Override
    public Type getType() {
        return Type.REPLACE;
    }
}

package com.mongodb;

import java.util.List;

/**
 * Keeps replica set status.
 */
public class ReplicaSetStatus {

    private final ClusterDescription clusterDescription;

    ReplicaSetStatus(final ClusterDescription clusterDescription) {
        this.clusterDescription = clusterDescription;
    }

    /**
     * Get the name of the replica set.
     * @return the name of the replica set.
     */
    public String getName() {
        List<ServerDescription> any = clusterDescription.getAnyPrimaryOrSecondary();
        return any.isEmpty() ? null : any.get(0).getSetName();
    }

    /**
     * Gets the ServerAddress of the master server in this replica set.
     * @return master or null if don't have one
     * @throws MongoException
     */
    public ServerAddress getMaster() {
        List<ServerDescription> primaries = clusterDescription.getPrimaries();
        return primaries.isEmpty() ? null : primaries.get(0).getAddress();
    }

    /**
     * Checks to see if a given server is the primary server in this replica set.
     * @param serverAddress the server to compare
     * @return indication if the ServerAddress is the current Master/Primary
     * @throws MongoException
     */
    public boolean isMaster(final ServerAddress serverAddress) {
        return getMaster().equals(serverAddress);
    }

    /**
     * Gets the maximum size for a BSON object supported by the current master server. Note that this value may change over time depending
     * on which server is master.
     * @return the maximum size, or 0 if not obtained from servers yet.
     * @throws MongoException
     */
    public int getMaxBSONSize() {
        return getMaxBSONSize();
    }
}
public int getMaxBsonObjectSize() {
    final List<ServerDescription> primaries = clusterDescription.getPrimaries();
    return primaries.isEmpty() ? ServerDescription.getDefaultMaxDocumentSize() : primaries.get(0).getMaxDocumentSize();
}

@Override
public String toString() {
    return "ReplicaSetStatus{ " +
            "name=" + getName() +
            ", cluster=" + clusterDescription +
            "}";
}

11.215 morgan 1.7.0
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11.216 mustache.js 0.5.1-dev
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11.217 mysql-connector-java-5.1.27 5.1.27

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11.247 shiro-core 1.4.0

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     */

package org.apache.shiro.authz;

    /**
     * A Permission represents the ability to perform an action or access a resource. A Permission is the most
     * granular, or atomic, unit in a system's security policy and is the cornerstone upon which fine-grained security
     * models are built.
     * <p/>
     * It is important to understand a Permission instance only represents functionality or access - it does not grant it.
Granting access to an application functionality or a particular resource is done by the application's security configuration, typically by assigning Permissions to users, roles and/or groups.

Most typical systems are what the Shiro team calls role-based in nature, where a role represents common behavior for certain user types. For example, a system might have an Administrator role, a User or Guest roles, etc.

But if you have a dynamic security model, where roles can be created and deleted at runtime, you can't hard-code role names in your code. In this environment, roles themselves aren't very useful. What matters is what permissions are assigned to these roles.

Under this paradigm, permissions are immutable and reflect an application's raw functionality (opening files, accessing a web URL, creating users, etc). This is what allows a system's security policy to be dynamic: because Permissions represent raw functionality and only change when the application's source code changes, they are immutable at runtime - they represent 'what' the system can do. Roles, users, and groups are the 'who' of the application. Determining 'who' can do 'what' then becomes a simple exercise of associating Permissions to roles, users, and groups in some way.

Most applications do this by associating a named role with permissions (i.e. a role 'has a' collection of Permissions) and then associate users with roles (i.e. a user 'has a' collection of roles) so that by transitive association, the user 'has' the permissions in their roles. There are numerous variations on this theme (permissions assigned directly to users, or assigned to groups, and users added to groups and these groups in turn have roles, etc, etc). When employing a permission-based security model instead of a role-based one, users, roles, and groups can all be created, configured and/or deleted at runtime. This enables an extremely powerful security model.

A benefit to Shiro is that, although it assumes most systems are based on these types of static role or dynamic role w/ permission schemes, it does not require a system to model their security data this way - all Permission checks are relegated to implementations, and only those implementations really determine how a user 'has' a permission or not. The Realm could use the semantics described here, or it could utilize some other mechanism entirely - it is always up to the application developer.

Shiro provides a very powerful default implementation of this interface in the form of the WildcardPermission. We highly recommend that you investigate this class before trying to implement your own Permission(s).

public interface Permission {

    /**
     * Returns true if this current instance implies all the functionality and/or resource access described by the specified Permission argument, false otherwise.
     */
    boolean implies(Permission argument);

    /**
     * Returns true if this current instance must be exactly equal to or a superset of the functionality
     */
    boolean eq(Permission argument);

*/
and/or resource access described by the given [@code Permission] argument. Yet another way of saying this would be:

If "permission1 implies permission2", i.e. <code>permission1.implies(permission2)</code>, then any Subject granted [@code permission1] would have ability greater than or equal to that defined by [@code permission2].

@returns [@code true] if this current instance <em>implies</em> all the functionality and/or resource access described by the specified [@code Permission] argument, [@code false] otherwise.

boolean implies(Permission p);

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Also note the [@link org.apache.shiro.authz.permission.PermissionResolver PermissionResolver] interface, as it plays an important part in many of Shiro's [@link org.apache.shiro.realm.Realm Realm] implementations and AOP support.
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*/

package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

/**
* A {@code PermissionResolver} resolves a String value and converts it into a
* {@link org.apache.shiro.authz.Permission Permission} instance.
* <p/>
* The default {@link WildcardPermissionResolver} should be
* suitable for most purposes, which constructs {@link WildcardPermission} objects.
* However, any resolver may be configured if an application wishes to use different
* {@link org.apache.shiro.authz.Permission} implementations.
* <p/>
* A {@code PermissionResolver} is used by many Shiro components such as annotations, property file
* configuration, URL configuration, etc. It is useful whenever a String representation of a permission is specified
* and that String needs to be converted to a Permission instance before executing a security check.
* <p/>
* Shiro chooses to support {@link WildcardPermission Wildcardpermission}s by default in almost all components and
* we do that in the form of the {@link WildcardPermissionResolver WildcardPermissionResolver}. One of the nice
* things about {@code WildcardPermission}s being supported by default is that it makes it very easy to
* store complex permissions in the database - and also makes it very easy to represent permissions in JSP files,
* annotations, etc., where a simple string representation is useful.
* <p/>
* Although this happens to be the Shiro default, you are of course free to provide custom
* String-to-Permission conversion by providing Shiro components any instance of this interface.
*<p/>
* {@see org.apache.shiro.authz.ModularRealmAuthorizer#setPermissionResolver(PermissionResolver) ModularRealmAuthorizer.setPermissionResolver}
* {@see org.apache.shiro.realm.AuthorizingRealm#setPermissionResolver(PermissionResolver) AuthorizingRealm.setPermissionResolver}
* {@see PermissionResolverAware PermissionResolverAware}
* {@since 0.9}
*/

public interface PermissionResolver {  

/**
   
   */
* Resolves a Permission based on the given String representation.
* @param permissionString the String representation of a permission.
* @return A Permission object that can be used internally to determine a subject's permissions.
* @throws InvalidPermissionStringException if the permission string is not valid for this resolver.
* /
Permission resolvePermission(String permissionString);

package org.apache.shiro.authz.permission;
import org.apache.shiro.authz.Permission;
import org.apache.shiro.util.CollectionUtils;
import org.apache.shiro.util.StringUtils;
import java.io.Serializable;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Set;

/**
* A <code>WildcardPermission</code> is a very flexible permission construct supporting multiple levels of
* permission matching. However, most people will probably follow some standard conventions as explained below.
* <p>
* <h3>Simple Usage</h3>
* <p>
* In the simplest form, <code>WildcardPermission</code> can be used as a simple permission string. You could
grant a user an "editNewsletter" permission and then check to see if the user has the editNewsletter permission by calling

```java
subject.isPermitted("editNewsletter")
```

This is (mostly) equivalent to

```java
subject.isPermitted( new WildcardPermission("editNewsletter") )
```

but more on that later.

The simple permission string may work for simple applications, but it requires you to have permissions like 
`"viewNewsletter"`, `"deleteNewsletter"`, `"createNewsletter"`, etc. You can also grant a user `"*"` permissions using the wildcard character (giving this class its name), which means they have all permissions. But using this approach there's no way to just say a user has "all newsletter permissions".

For this reason, `WildcardPermission` supports multiple levels of permissioning.

`WildcardPermission` also supports the concept of multiple levels. For example, you could restructure the previous simple example by granting a user the permission `"newsletter:edit"`. The colon in this example is a special character used by the `WildcardPermission` that delimits the next token in the permission.

In this example, the first token is the domain that is being operated on and the second token is the action being performed. Each level can contain multiple values. So you could simply grant a user the permission `"newsletter:view,edit,create"` which gives them access to perform `"view"`, `"edit"`, and `"create"` actions in the `newsletter` domain. Then you could check to see if the user has the `"newsletter:create"` permission by calling

```java
subject.isPermitted("newsletter:create")
```

(which would return true).

In addition to granting multiple permissions via a single string, you can grant all permission for a particular level. So if you wanted to grant a user all actions in the `newsletter` domain, you could simply give them `"newsletter:*"`. Now, any permission check for `"newsletter:XXX"` will return `true`. It is also possible to use the wildcard token at the domain level (or both): so you could grant a user the `"view"` action across all domains `"*:view"`.

Another common usage of the `WildcardPermission` is to model instance-level Access Control...
Lists.
* In this scenario you use three tokens - the first is the <em>domain</em>, the second is the <em>action</em>, and
* the third is the <em>instance</em> you are acting on.
* <p/>
* So for example you could grant a user <code>"newsletter:edit:12,13,18"</code>. In this example, assume
* that the third token is the system's ID of the newsletter. That would allow the user to edit newsletters
* <code>12</code>, <code>13</code>, and <code>18</code>. This is an extremely powerful way to express
permissions,
* since you can now say things like <code>"newsletter::*:13"</code> (grant a user all actions for newsletter
* <code>13</code>), <code>"newsletter:view,create,edit::*"</code> (allow the user to
* <code>view</code>, <code>create</code>, or <code>edit</code> <em>any</em> <em>any</em> newsletter), or
* <code>"newsletter::*::*"</code> (allow the user to perform <em>any</em> action on <em>any</em> newsletter).
* <p/>
* To perform checks against these instance-level permissions, the application should include the instance ID in the
* permission check like so:
* <p/>
* <code>subject.isPermitted( "newsletter:edit:13" )</code>
* <p/>
* There is no limit to the number of tokens that can be used, so it is up to your imagination in terms of ways that
* this could be used in your application. However, the Shiro team likes to standardize some common usages shown
* above to help people get started and provide consistency in the Shiro community.
* 
* @since 0.9
* */

public class WildcardPermission implements Permission, Serializable {

    //TODO - JavaDoc methods

    /*--------------------------------------------
    |             C O N S T A N T S             |
    =============================================*/
    protected static final String WILDCARD_TOKEN = "*";
    protected static final String PART_DIVIDER_TOKEN = ";";
    protected static final String SUBPART_DIVIDER_TOKEN = ",";
    protected static final boolean DEFAULT_CASE_SENSITIVE = false;

    /*--------------------------------------------
    |    I N S T A N C E   V A R I A B L E S    |
    =============================================*/
    private List<Set<String>> parts;

    /*--------------------------------------------
    |         C O N S T R U C T O R S           |
    =============================================*/
    /**
     * Default no-arg constructor for subclasses only - end-user developers instantiating Permission instances must
     * provide a wildcard string at a minimum, since Permission instances are immutable once instantiated.
     * <p/>
* Note that the WildcardPermission class is very robust and typically subclasses are not necessary unless you
* wish to create type-safe Permission objects that would be used in your application, such as perhaps a
* [ @code UserPermission], [ @code SystemPermission], [ @code PrinterPermission], etc. If you want such
type-safe
* permission usage, consider subclassing the [ @link DomainPermission DomainPermission] class for your
needs.
*/
protected WildcardPermission() {
}

public WildcardPermission(String wildcardString) {
    this(wildcardString, DEFAULT_CASE_SENSITIVE);
}

public WildcardPermission(String wildcardString, boolean caseSensitive) {
    setParts(wildcardString, caseSensitive);
}

protected void setParts(String wildcardString) {
    setParts(wildcardString, DEFAULT_CASE_SENSITIVE);
}

protected void setParts(String wildcardString, boolean caseSensitive) {
    wildcardString = StringUtils.clean(wildcardString);

    if (wildcardString == null || wildcardString.isEmpty()) {
        throw new IllegalArgumentException("Wildcard string cannot be null or empty. Make sure permission
strings are properly formatted.");
    }

    if (!caseSensitive) {
        wildcardString = wildcardString.toLowerCase();
    }

    List<String> parts = CollectionUtils.asList(wildcardString.split(PART_DIVIDER_TOKEN));

    this.parts = new ArrayList<Set<String>>();
    for (String part : parts) {
        Set<String> subparts = CollectionUtils.asSet(part.split(SUBPART_DIVIDER_TOKEN));

        if (subparts.isEmpty()) {
            throw new IllegalArgumentException("Wildcard string cannot contain parts with only dividers. Make sure
permission strings are properly formatted.");
        }

        this.parts.add(subparts);
    }

    if (this.parts.isEmpty()) {
throw new IllegalArgumentException("Wildcard string cannot contain only dividers. Make sure permission strings are properly formatted.");
}
}

/*--------------------------------------------
| ACCESSORS / MODIFIERS |
============================================*/
protected List<Set<String>> getParts() {
    return this.parts;
}

/**
 * Sets the pre-split String parts of this <code>WildcardPermission</code>.
 * @since 1.3.0
 * @param parts pre-split String parts.
 */
protected void setParts(List<Set<String>> parts) {
    this.parts = parts;
}

/*--------------------------------------------
|               METHODS               |
============================================*/
public boolean implies(Permission p) {
    // By default only supports comparisons with other WildcardPermissions
    if (!!(p instanceof WildcardPermission)) {
        return false;
    }
}

WildcardPermission wp = (WildcardPermission) p;

List<Set<String>> otherParts = wp.getParts();

int i = 0;
for (Set<String> otherPart : otherParts) {
    // If this permission has less parts than the other permission, everything after the number of parts contained
    // in this permission is automatically implied, so return true
    if (getParts().size() - 1 < i) {
        return true;
    } else {
        Set<String> part = getParts().get(i);
        if (!part.contains(WILDCARD_TOKEN) && !part.containsAll(otherPart)) {
            return false;
        }
        i++;
    }
}
// If this permission has more parts than the other parts, only imply it if all of the other parts are wildcards
for (; i < getParts().size(); i++) {
    Set<String> part = getParts().get(i);
    if (!part.contains(WILDCARD_TOKEN)) {
        return false;
    }
}
return true;

public String toString() {
    StringBuilder buffer = new StringBuilder();
    for (Set<String> part : parts) {
        if (buffer.length() > 0) {
            buffer.append(PART_DIVIDER_TOKEN);
        }
        Iterator<String> partIt = part.iterator();
        while(partIt.hasNext()) {
            buffer.append(partIt.next());
            if (partIt.hasNext()) {
                buffer.append(SUBPART_DIVIDER_TOKEN);
            }
        }
    }
    return buffer.toString();
}

public boolean equals(Object o) {
    if (o instanceof WildcardPermission) {
        WildcardPermission wp = (WildcardPermission) o;
        return parts.equals(wp.parts);
    }
    return false;
}

public int hashCode() {
    return parts.hashCode();
}

}/*

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package org.apache.shiro.authz.permission;

/**
 * Interface implemented by a component that wishes to use any application-configured
 * <tt>RolePermissionResolver</tt> that might already exist instead of potentially creating one itself.
 * This is mostly implemented by [ @link org.apache.shiro.authz.Authorizer Authorizer] and
 * [ @link org.apache.shiro.realm.Realm Realm] implementations since they
 * are the ones performing permission checks and need to know how to resolve Strings into
 * [ @link org.apache.shiro.authz.Permission Permission] instances.
 *
 * @since 1.0
 */

public interface RolePermissionResolverAware {

    /**
     * Sets the specified <tt>RolePermissionResolver</tt> on this instance.
     * @param rpr the <tt>RolePermissionResolver</tt> being set.
     */
    public void setRolePermissionResolver(RolePermissionResolver rpr);
}

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*/

package org.apache.shiro.authz.permission;

import java.io.Serializable;

import org.apache.shiro.authz.Permission;

/**
 * An all <tt>AllPermission</tt> instance is one that always implies any other permission; that is, its
 * [ @link #implies implies ] method always returns <tt>true</tt>.
 *
 * <p>You should be very careful about the users, roles, and/or groups to which this permission is assigned since
 * those respective entities will have the ability to do anything. As such, an instance of this class
 * is typically only assigned only to "root" or "administrator" users or roles.
 *
 * @since 0.1
 */

public class AllPermission implements Permission, Serializable {

    /**
     * Always returns <tt>true</tt>, indicating any Subject granted this permission can do anything.
     *
     * @param p the Permission to check for implies logic.
     * @return <tt>true</tt> always, indicating any Subject granted this permission can do anything.
     */
    public boolean implies(Permission p) {
        return true;
    }

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     */
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

public class WildcardPermissionResolver implements PermissionResolver {

    /**
     * Returns a new {@link WildcardPermission} instance constructed based on the specified
     * <tt>permissionString</tt>.
     *
     * @param permissionString the permission string to convert to a {@link Permission} instance.
     * @return a new {@link WildcardPermission} instance constructed based on the specified
     *         <tt>permissionString</tt>
     */
    public Permission resolvePermission(String permissionString) {
        return new WildcardPermission(permissionString);
    }
}

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   * specific language governing permissions and limitations
   * under the License.
*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.ShiroException;

/**
 * Thrown by [PermissionResolver#resolvePermission(String)] when the String being parsed is not
 * valid for that resolver.
 *
 * @since 0.9
 */
public class InvalidPermissionStringException extends ShiroException {
    private String permissionString;

    /**
     * Constructs a new exception with the given message and permission string.
     *
     * @param message          the exception message.
     * @param permissionString the invalid permission string.
     */
    public InvalidPermissionStringException(String message, String permissionString) {
        super(message);
        this.permissionString = permissionString;
    }

    /**
     * Returns the permission string that was invalid and caused this exception to
     * be thrown.
     *
     * @return the permission string.
     */
    public String getPermissionString() {
        return this.permissionString;
    }

}
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;
import java.util.Collection;

/**
 * A RolePermissionResolver resolves a String value and converts it into a Collection of
 * [{@link org.apache.shiro.authz.Permission}] instances.
 * <p/>
 * In some cases a [{@link org.apache.shiro.realm.Realm}] my only be able to return a list of roles. This
 * component allows an application to resolve the roles into permissions.
 * 
 */
public interface RolePermissionResolver {

    /**
     * Resolves a Collection of Permissions based on the given String representation.
     *
     * @param roleString the String representation of a role name to resolve.
     * @return a Collection of Permissions based on the given String representation.
     */
    Collection<Permission> resolvePermissionsInRole(String roleString);

}

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*/
package org.apache.shiro.authz.permission;

/**
 * Interface implemented by a component that wishes to use any application-configured <tt>PermissionResolver</tt>
 * that
 * might already exist instead of potentially creating one itself.
 *<p>This is mostly implemented by { @link org.apache.shiro.authz.Authorizer Authorizer} and
 * { @link org.apache.shiro.realm.Realm Realm} implementations since they
 * are the ones performing permission checks and need to know how to resolve Strings into
 * { @link org.apache.shiro.authz.Permission Permission} instances.
 *<p>@since 0.9
 */

public interface PermissionResolverAware {

    /**
     * Sets the specified <tt>PermissionResolver</tt> on this instance.
     *<p>/param pr the <tt>PermissionResolver</tt> being set.
     */
    public void setPermissionResolver(PermissionResolver pr);
}

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11.253 simpleclient 0.1.0

11.254 simpleclient_common 0.1.0

11.255 simpleclient_dropwizard 0.1.0

11.256 simpleclient_httpserver 0.1.0

11.257 slf4j-api 1.7.25
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11.258 SnakeYAML 1.15

11.259 spring-aop 5.0.9.RELEASE
11.260 spring-aspects 5.0.8

11.261 spring-beans 5.1.0.RELEASE

11.262 spring-context 5.0.9.RELEASE

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11.273 spring-web 5.0.9.RELEASE

11.274 spring-webmvc 3.2.6.RELEASE

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11.277 underscore 1.8.3

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11.278 validation-api 2.0.1.Final

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11.279 WMI4Java 1.6.1

11.280 XPP3 1.1.3.4.O

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12.18 jetty-server 7.1.4.v20100610

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

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

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

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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.

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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12.36 slf4j-api 1.5.2

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 */
package org.slf4j;

/**
 * <code>ILoggerFactory</code> instances manufacture [@link Logger]
 * instances by name.
 *
 * <p>Most users retrieve [@link Logger] instances through the static
 * [@link LoggerFactory#getLogger(String)] method. An instance of this
 * interface is bound internally with [@link LoggerFactory] class at
 * compile time.
 *
 * [@author Ceki G{"u}{uml}c{"u};l;
 *
 * public interface ILoggerFactory {

 /**
 * Return an appropriate [@link Logger] instance as specified by the
 * <code>name</code> parameter.
 *
 * <p>If the name parameter is equal to [@link Logger#ROOT_LOGGER_NAME], that is
 * the string value "ROOT" (case insensitive), then the root logger of the
 * underlying logging system is returned.
 *
 * <p>Null-valued name arguments are considered invalid.
 *
 * <p>Certain extremely simple logging systems, e.g. NOP, may always
 * return the same logger instance regardless of the requested name.
 *
 * [@param name the name of the Logger to return
 *
 * public Logger getLogger(String name);
 */

12.37 slf4j_Apache 1.5.0
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12.38 syslog4j 0.9.46
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