Open Source Used In FXOS Security Module 2.4(1) and Cisco ASA Series 9.10(x)

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* National Center for Supercomputing Applications
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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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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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 *
 * 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 $   
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*/

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived 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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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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

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

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>Permission to use, copy, modify, and/or distribute this software for any
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</xsl:text>
  </xsl:variable>
</xsl:stylesheet>
1.17 bison 2.7.1

1.17.1 Available under license:

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

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

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use strict;
use warnings;

my $margin = 72;
```
my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/^\d{4}$/)
{
    my ($sec, $min, $shour, $smday, $smmonth, $syear) = localtime (time ());
    $this_year = $syear + 1900;
}
my $old_re = <<'EOF'
( (?::[^\n])
  #BEFORE
  (?:
    b4_copyright\([\^[^\[]]*\]
    \| m4_(?:push|pop)def\([\[b4_copyright_years]\]
  )
  #AFTER
  )
  (?:
    ,\s*
    ( \[\s* (?:\d\{4\}(?:,:\s*[-]\d\{4\}\s*)\] )
  )
  )?
}\)
EOF
;

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

# Compress to intervals.
$year_lines =~
  s/\d{4}$/\1-$3/gx;

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

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

# Prepare for the next search.
pos () = $start + length "$b4_copyright_line$year_lines_new";
my $start = pos () - length ($1);
my $end = pos ();
my $re = $old_re;
pos () = $start;
$re =~ s/#BEFORE/#G/;
if (!/$re/x)
{
    my $line = (substr ($_, 0, $start) =~ s/
/
/g) + 1;
    print STDERR
    "$ARGV:$line: warning: failed to update a b4_copyright\n";
}
pos () = $end;
}

while (/([^b4_copyri\tht_years]\])/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_re;
    $re =~ s/#AFTER/#G/;
    if (!/$re/x)
    {
        # The substr operation blows away pos (), so restoring pos ()
        # at the end is necessary.
        my $line = (substr ($_, 0, $start) =~ s/
/
/g) + 1;
        print STDERR
        "$ARGV:$line: warning: failed to update a"
        . " b4_copyri\tht_years\n";
    }
pos () = $end;
}

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Version 3, 29 June 2007

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@end enumerate

@end enumerate

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

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@end smallexample

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

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

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

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

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1.18 boost 1.58.0 :0.0

1.18.1 Available under license:

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

Purely as an implementation detail, this means that 

```cpp
true_type
```

inherits from

```cpp
boost::mpl::true_<
```

and

```cpp
false_type
```

inherits from

```cpp
boost::mpl::false_<
```

and

```cpp
integral_constant<T,<v>
```

inherit from

```cpp
boost::mpl::integral_c
```

(provided `T` is not `bool`)

```cpp
false_type</a>
```

</div>
</div>
</table>

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Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
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Watanabe

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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):
```
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'^(?P<prefix>\W*)(\(c\))\?\s*?copyright\s*(\(c\))\?\d{4}(?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>
<br /></section>

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Jeff Garland © 2000-2002

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 *
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 *
 */

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

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

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

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

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

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

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC \"-/W3C//DTD HTML 4.0 Transitional//EN\" \n"
"<html><head><title>Boost Licence Dependency Information</title></head><body><H1>Boost Licence Dependency Information</H1><H2>Contents</h2><pre><a href="#input">Input Information</a><br/>if(!m_bsl_summary_mode)<br/>os << "<a href="#summary">Licence Summary</a>
";<br/>os << "<a href="#details">Licence Details</a>
";</br/>while(i != j)<br/>{<br/>   // title:<br/>   os << "<A href="#" << make_link_target(licenses.first[i->first].license_name)<br/>   ""\"">" << licenses.first[i->first].license_name << "</a>\n";</br/>   ++i;</br/>}<br/>os << "<a href="#files">Files with no recognised license</a>
";<br/>"<a href="#authors">Files with no recognised copyright holder</a>
";<br/>if(!m_bsl_summary_mode)<br/>{<br/>   os << "Moving to the Boost Software License...
";<br/>   "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
";<br/>   "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
";<br/>   "<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
";<br/>   "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
";<br/>} <br/>os << "<a href="#depend">File Dependency Information</a>
";<br/>"</pre>"
// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>";
else
    os << "<P>The following Boost modules were checked:<BR>";

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

// 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 << "\n";
}

// output each license:
//
// os << "<a name="summary"></a><h2>Licence Summary</h2>
while(i != j)
{
    // title:
    os << "<h2>Licence Summary</h2>
    //
    // start with the summary:
    //
    os << "<a name="summary\"">\n";
    while(i != j)
    {
        // title:
        os << "<h2>Licence Summary</h2>
        //
        // start with the summary:
        //
        os << "<a name="summary\"">\n";
    }
"<H3>" << licenses.first[i->first].license_name << "</H3>
"; // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>"; // Copyright holders:
os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" make_link_target(licenses.first[i->first].license_name) >(see details)</a>;";
os << "</P></BLOCKQUOTE>
";
++i;
}
}
// 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>
"; // 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 " licenses.first[i->first].license_name << " copyright holders:s://p>in</BLOCKQUOTE></P>":
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y) {
  os << "<BR>
";
  ++x;
}
os << "</P></BLOCKQUOTE>
"; // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:></P>
";
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n) {

os << split_path(m_boost_path, *m) << "<br>
";
++m;
}
os << "</P></BLOCKQUOTE><\n";
}
else
{
os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P><\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P><\n";
}
++license_index;
++i;
}

// Output list of files not found to be under license control:
//
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><\n"
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</P><BLOCKQUOTE><P>
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><\n"
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</P><\n";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
os << split_path(m_boost_path, *i2) << "<br>
";
++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
// Output list of files that have been moved over to the Boost
// Software License, along with enough information for human
// verification.
Files that can be automatically converted to the Boost Software License

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:

```
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>
            <table border="1">
              <tr>
                <td><pre>" << i->second.first << "</pre></td>
                <td><pre>" << i->second.second << "</pre></td>
              </tr>
            </table>
        </P>
        ++i;
        ++file_num;
    }
```

Files that could be converted 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:

```
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>";
    ++i2;
}
```

Files that can NOT be converted to the Boost Software License

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

```
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>";
    ++i2;
}
```
Open Source Used In FXOS Security Module 2.4(1) and Cisco ASA Series 9.10(x)

++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>,

 std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
           std::ostream_iterator<std::string>(os, "<br\\n"));
os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</h2><table border="1\\n";

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

//
// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</h2><BLOCKQUOTE><pre>

 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 << " \rightarrow ";
        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;
}
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 (brazil@diamond.bbn.com) originally supplied the ULTRIX code. Al Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de()) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agle@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.) This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

Copyright:

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

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

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Some portions are also:

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Copyright 2003-2006 Vladimir Prus.

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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if defined(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 <cstdint>

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_detail

namespace container {
} //namespace container

namespace boost {
} //namespace boost

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

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

/////////////////////////////////////////////////////////////////////////////
// (C) Copyright Ion Gaztanaga 2005-2012.
// Distributed under the Boost Software License, Version 1.0.
// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
///////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

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

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

namespace boost {
namespace interprocess {
namespace ipcdetail {

}} //namespace ipcdetail
} //namespace interprocess
} //namespace boost
} //namespace container
} //namespace container_detail
} //namespace boost

} //namespace container_detail
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 {

#ifdef   //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
 //////////////////////////////////////////////////////////////////////////
 //
 // (C) Copyright Ion Gaztanaga        2006-2014
 // (C) Copyright Microsoft Corporation  2014
 //
 // Distributed under the Boost Software License, Version 1.0.
 // (See accompanying file LICENSE_1_0.txt or copy at
 //     http://www.boost.org/LICENSE_1_0.txt)
 //
 //
 //////////////////////////////////////////////////////////////////////////
#endif   //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#define BOOST_CONFIG_HPP
#endif

#include <boost/config.hpp>
#include <cstddef>
namespace boost {
    namespace intrusive {
        namespace detail {

#ifdef   //ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
 #ifndef BOOST_CONFIG_HPP
 # define BOOST_CONFIG_HPP

 #ifndef BOOST_HAS_PRAGMA_ONCE
 # pragma once
 #endif

 # include <boost/config.hpp>
 
 # ifndef BOOST_CONFIG_HPP
 
 # define BOOST_CONFIG_HPP
 
 # ifndef 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>
{
    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
{
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];};
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(trigger()) == sizeof(true_t);
};
#endif

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

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

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

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

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

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

template<class T, bool Add>
struct add_const_if_c
{
    typedef typename if_c
        < Add
        , typename add_const<T>::type
        , T
        >::type type;
};

boost::alignment_of yields to 10K lines of preprocessed code, so we
need an alternative

template <typename T> struct alignment_of;

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

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

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

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

struct empty_helper_t2
{ int i[256]; };

public:
  static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

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

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

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

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

#include <assert.h>

template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);

static const std::size_t value = sizeof(test<T>(0));

#endif

//

#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 check(helper<&T::FUNC_NAME>*);

    template<typename T> static ::boost::intrusive::detail::no_type check(...);

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_IGNORE_SIGNATURE(TRAITS_NAME,
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*>(
        reinterpret_cast<const char&>(obj)));
}

} //namespace intrusive
} //namespace boost

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@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 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 software is a collection of libraries from the Boost.org site. Most of the libraries use the Boost Software License 1.0, which reads as follows.

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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

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

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!

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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 their applications are also GPL-2 which isn't the place of a library to dictate to application writers what license they should be using. Thus LGPL-2.1 enters to fill this void.

--mike

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

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> >=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
it was enough to just get it consistent and documented as to what
it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

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

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

-mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

I like GPL, I use it when I can, but I don't think that it's the correct
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

Open Source Used In FXOS Security Module 2.4(1) and Cisco ASA Series 9.10(x)
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.
> I am sympathetic. Guys, what do you reckon?
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...
> My apologies for not chiming in in anything resembling a reasonable
timeframe.
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> In any case, I thank you both for working on sorting this out.

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

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

yes, go for it. thanks++

-a

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

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

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

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

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtrpr020623
    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, 01 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 11cOX-X-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: <1b1b3fd80710010908k11dac0afp1t2dd471059ff9a4@mail.gmail.com>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.34 CRC32 1.222

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1.35 cronie 1.5.0

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

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1.41 dbus 1.8.20

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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 3a0982da308228d796df35f98d787c5c0f2b5b6.

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>


== Diffutils 3.3 ==

1.43.1 Available under license:

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  Support for streaming Protocol Buffer messages for the Go language (golang).
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David Gibson <david@gibson.dropbear.id.au>
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
/*
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-
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Theodore Ts'o
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1.55 ethtool 4.0

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src/gzip/infblock.c
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src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
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src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/ftrandom/ftrandom.c
#
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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

1.70 gcc-runtime 5.2.0

1.70.1 Available under license:

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.IP "1. Source Code." 4
.IX Item "1. Source Code."
The \&\&L"source code" for a work means the preferred form of the work for making modifications to it. \&\&L"Object code" means any non-source form of a work.

.Sp
A \&\&L"Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

.Sp
The \&\&L"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 \&\&L"Major Component", in this context, means a major essential component
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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Version 2.1, February 1999

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

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

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

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

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

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

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.

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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afety-Compatible Regular Expressions

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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*************************************************
*      Perl-Compatible Regular Expressions       *
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/* PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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export LC_ALL=C
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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
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po/*.po)
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1130


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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ispell-local-pdict: "ispell-dict"
End:

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## Constant-time SSSE3 AES core implementation.
## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
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##
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# when there is no Makefile.
#
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This file is part of Valgrind, a dynamic binary instrumentation
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----------------------------------------------------------------

1.82 grep 2.21

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## -*-makefile-*- 
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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
SHAREDLIBCCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -DPIC
```

## Additional flags when building libraries and with threads

```
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

## Compiler switch to embed a runtime search path

```
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
```

## Compiler switch to embed a library name

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

## Shared library options

```
LD_SOOPTIONS = -Wl,-Bsymbolic
```

## Shared object suffix

```
SO = so
```

## Non-shared intermediate object suffix

```
STATIC_O = ao
```

## Compilation rules

```
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

## Dependency rules

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

---

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1.102 json-c 0.12

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1.107 kmod 21.0

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
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/kproplc.c
```

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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4” cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen’s ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can’t be used for encryption, but will generate good random numbers.

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Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

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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1.126 libjson 0.9

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1.127 libnfsidmap 0.25

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1.128 libnl 3.2.25

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1.137 libtalloc 2.1.3 :r0

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Version 3, 29 June 2007


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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.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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1.142 libusb-compat 0.1.5

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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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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
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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)
Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Ronny Strutz <3des@elitedvb.de>
Wolfraim Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

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

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

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

Michael Dreher <michael@5dot1.de>
Andreas ‘randy’ Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S
Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

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

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

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

Michael Krufky <smkrufky@linuxtv.org>
for maintaining v4l/dvb inter-tree dependencies

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

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

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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

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

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           || strcmp(license, "GPL and additional rights") == 0
           || strcmp(license, "Dual BSD/GPL") == 0
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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!
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* * http://www.hypermall.com/
* * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* * interrupts us (except possibly for removal/insertion of the cable?)
* * 10/4/97 - began heavy inline documentation of the code. Corrected typos
* * and spelling mistakes.
* * 10/5/97 - added code to handle PHY interrupts, disable PHY on
*loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstart() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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*
* M. Welsh, 6 July 1996
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Mathieu Desnoyers
June 2, 2011

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

1.156 lm-sensors 3.3.2 :r1.0

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* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
  libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
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* Bob Schlaermann
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  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.170 mvDmaDrv 1.0 1.0
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*dmaDriver.c

* DESCRIPTION:
* mvDmaDrv - driver to map DMA memory to userspace
* Usage:
* fd=open("/dev/mvDmaDrv",O_RDWR);
* mmap(size, ...,fd,0) will allocate DMA block and map it
* ...
* close(fd) will unmap and free DMA block
*
* INPUT:
* mvDmaDrv_major - device major number.
* Command line example: insmod /mvDmaDrv.ko mvDmaDrv_major=243
*
* Please note:
* on intel CPU it requires 'intel_iommu=off' kernel option
*
* Major device number note options - how to setup major device number:
* 1) module parameter - pass parameter to the module,
* for example: #insmod /mvDmaDrv.ko mvDmaDrv_major=243
* 2) dynamic allocation - default when no module parameter passed
*
* DEPENDENCIES:
*
* $Revision: #1 $
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1.171 ncurses 5.9
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1.172 ncurses 5.9

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1.173 net-snmp 5.7.3

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29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote snntp to comply with NTPv4 specification, ntpq saveconfig
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47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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1.195 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
 * project.
 * Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
 * size keys (Implemented RFC5649)
 */
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* 1.196 opkg-utils 0.1.8+git0+53274f0875

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1.197 os-release 1.0 :r0.0
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HOME AND DOCUMENTATION

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  o http://www.ossp.org/pkg/lib/uuid/
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AUTHORS

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

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1.199 packagegroup-core-boot 1.0 :r17.0

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1.200 Packet allocation and deallocation routines 1.3.2

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1.201 pam-ldap 184

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

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

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

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

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

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

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2. You may modify your copy or copies of the Library or any portion
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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
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charge to all third parties under the terms of this License.

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

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

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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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1.202 pam-radius 1.3.17

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1.206 pciutils 3.3.1 :r0.0

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1.207 pcre 8.37
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<one line to give the program's name and a brief idea of what it does.>  
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Open Source Used In FXOS Security Module 2.4(1) and Cisco ASA Series 9.10(x)
Also add information on how to contact you by electronic and paper mail.

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

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

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

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

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

That's all there is to it!

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---

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

#perl

=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.

=cut

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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1.209 pigz-native 2.3.3
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// Author: kenton@google.com (Kenton Varda)
// Based on original Protocol Buffers design by
// Sanjay Ghemawat, Jeff Dean, and others.
// Modified to implement C code by Dave Benson.

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1.218 protobuf-ssp 2.5.0

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Oleg Smolsky <oleg.smolsky@gmail.com>
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* gzip/zlib I/O support.
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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>
* Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

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.

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1.219 pyhton backdoor 1.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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# Default configuration for sparc-bsd-user
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/*
 * FreeBSD strace list
 *
 *
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{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s("%s", %d, %d", %d")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %d")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s("%s", %d, %d")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s("%s", %d, %d")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, %d")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("%s", %d, %d")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, %d", %d")", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", 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", %d")", NULL, NULL },
{ 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_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()"", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()"", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", "%s()"", NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", "%s()"", NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()"", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()"", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", "%s()"", NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", "%s()"", NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", "%s()"", NULL, NULL },

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{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s",%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s("%s",%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s("%s",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mail, "mail", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_perror, "perror", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recmvsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
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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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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

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

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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.

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{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(""%s\"", %d, %d, %d, %d, %d)", NULL, NULL },}
Open Source Used In FXOS Security Module 2.4(1) and Cisco ASA Series 9.10(x)

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Open Source Used In FXOS Security Module 2.4(1) and Cisco ASA Series 9.10(x)

2720

```c
{ TARGET_FREEBSD_NR_getpid, " getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, " getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, " getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, " getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, " getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getusage, " getusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, " getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, " getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, " ioctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_issetugid, " issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, " kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, " kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, " kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, " ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, " lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, " link", "%s("%s",%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, " listen", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, " lstat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, " madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, " mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, " minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR.mkdir, " mkdir", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, " mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, " mknod", "%s("%s",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, " mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, " mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, " mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mount, " mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, " mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, " msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, " msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mgsrvcv, " mgsrvcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, " msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, " munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, " munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, " munmap", "%s(%#p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, " nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, " nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, " open", "%s("%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, " openat", "%s(%d,"%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, " pathconf", "%s("%s",%d)", NULL, NULL },
```
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s",%p,%d)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s","%s")", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtproc_thread, "rtproc_thread", "%s(%d, %d, %p)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgdid, "setgdid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL }. 
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_siganction, "siganction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sockets, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketspair, "socketspair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s("%s",%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_system, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
/*
 * System call numbers.
 *
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
    /* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
    /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
    /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
    /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
    /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
    /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
    /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
    /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
  /* 62 is old fstat */
  /* 63 is old getkerninfo */
  /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
  /* 67 is obsolete vread */
  /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
  /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
  /* 76 is obsolete vhangup */
  /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgpr 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
  /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
  /* 87 is old gethostname */
  /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
  /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
  /* 101 is old send */
  /* 102 is old recv */
  /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind  104
#define TARGET_FREEBSD_NR_setsockopt  105
#define TARGET_FREEBSD_NR_listen  106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday  122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid  126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#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
#define TARGET_FREEBSD_NR_gethostname */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg    146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid  147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp.adjusttime 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_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_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_modxattr 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_oio_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_rr_get_interval 332
#define TARGET_FREEBSD_NR_sched_get_priority_max 333
#define TARGET_FREEBSD_NR_sched_get_priority_min 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR__setuid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR__mac_get_proc 384
#define TARGET_FREEBSD_NR__mac_set_proc 385
#define TARGET_FREEBSD_NR__mac_get_fd 386
#define TARGET_FREEBSD_NR__mac_get_file 387
#define TARGET_FREEBSD_NR__mac_set_fd 388
#define TARGET_FREEBSD_NR__mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_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_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR__mac_get_pid 409
#define TARGET_FREEBSD_NR__mac_get_link 410
#define TARGET_FREEBSD_NR__mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR__mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 418
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR__acl_get_link 425
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_truncate2 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_facessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fexectve 491
#define TARGET_FREEBSD_NR_fstatat 492
#define TARGET_FREEBSD_NR_futimesat 493
#define TARGET_FREEBSD_NR_linkat 494
#define TARGET_FREEBSD_NR_mkdirat 495
#define TARGET_FREEBSD_NR_mknodat 496
#define TARGET_FREEBSD_NR_openat 497
#define TARGET_FREEBSD_NR_readlinkat 498
#define TARGET_FREEBSD_NR_renameat 499
#define TARGET_FREEBSD_NR_renamenat 500
#define TARGET_FREEBSD_NR_symlinkat 501
#define TARGET_FREEBSD_NR_unlinkat 502
#define TARGET_FREEBSD_NR POSIX_openpt 503
#define TARGET_FREEBSD_NR gssd syscall 504
#define TARGET_FREEBSD_NR jail_get 505
#define TARGET_FREEBSD_NR jail_set 506
#define TARGET_FREEBSD_NR jail_remove 507
#define TARGET_FREEBSD_NR closefrom 508
#define TARGET_FREEBSD_NR __semctl 509
#define TARGET_FREEBSD_NR msgctl 510
#define TARGET_FREEBSD_NR shmctl 511
#define TARGET_FREEBSD_NR lpathconf 512
#define TARGET_FREEBSD_NR cap_new 513
#define TARGET_FREEBSD_NR cap_getrights 514
#define TARGET_FREEBSD_NR cap_enter 515
#define TARGET_FREEBSD_NR cap_setmode 516
#define TARGET_FREEBSD_NR cap_pdtype 517
#define TARGET_FREEBSD_NR pdfork 518
#define TARGET_FREEBSD_NR pdkill 519
#define TARGET_FREEBSD_NR psgetpid 520
#define TARGET_FREEBSD_NR pselect 521
#define TARGET_FREEBSD_NR getloginclass 522
#define TARGET_FREEBSD_NR setloginclass 523
#define TARGET_FREEBSD_NR rctl_get_racct 524
#define TARGET_FREEBSD_NR rctl_get_rules 525
#define TARGET_FREEBSD_NR rctl_get_limits 526
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#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: sycalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
 */

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_sypmlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_munmap 70
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
# define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segeclean 186
#define TARGET_OPENBSD_NR_lfs_segewait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirent 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR___getrlimit 199
#define TARGET_OPENBSD_NR___syscall 200
#define TARGET_OPENBSD_NR___syscall 201
#define TARGET_OPENBSD_NR___syscall 202
#define TARGET_OPENBSD_NR___syscall 203
#define TARGET_OPENBSD_NR___syscall 204
#define TARGET_OPENBSD_NR___syscall 205
#define TARGET_OPENBSD_NR___syscall 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfsioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR__getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309

/* syscall flags from machine/trap.h */

/* OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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*
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400 /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800 /* use %g7 as above (deprecated) */

/* OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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* @(#)errno.h 8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM 1 /* Operation not permitted */
#define TARGET_ENOENT 2 /* No such file or directory */
#define TARGET_ESRCH 3 /* No such process */
#define TARGET_EINTR 4 /* Interrupted system call */
#define TARGET_EIO 5 /* Input/output error */
#define TARGET_ENXIO 6 /* Device not configured */
#define TARGET_E2BIG 7 /* Argument list too long */
#define TARGET_ENOEXEC 8 /* Exec format error */
#define TARGET_EBADF 9 /* Bad file descriptor */
#define TARGET_ECHILD 10 /* No child processes */
#define TARGET_EDEADLK 11 /* Resource deadlock avoided */
/* 11 was EAGAIN */
#define TARGET_ENOMEM 12 /* Cannot allocate memory */
#define TARGET_EACCES 13 /* Permission denied */
#define TARGET_EFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET ENFILE 23 /* Too many open files in system */
#define TARGET EMFILE 24 /* Too many open files */
#define TARGET ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET EFBIG 27 /* File too large */
#define TARGET ENOSPC 28 /* No space left on device */
#define TARGET 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 EINVALPROGRESS 36 /* Operation now in progress */
#define TARGET EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET EDESTADDRREQ 39 /* Destination address required */
#define TARGET EMSGSIZE 40 /* Message too long */
#define TARGET EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET ENOPROTOOPT 42 /* Protocol not available */
#define TARGET EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET ENOPROTOOPT 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 ENOPNOTSUPP 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 ENOBUFFS 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_ocreat  8
#define TARGET_NETBSD_NR_link     9
#define TARGET_NETBSD_NR_unlink   10
#define TARGET_NETBSD_NR.chdir    12
#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_open   19
#define TARGET_NETBSD_NR_getpid    20
#define TARGET_NETBSD_NR_unmount  22
#define TARGET_NETBSD_NR_setuid    23
#define TARGET_NETBSD_NR_getuid    24
#define TARGET_NETBSD_NR_geteuid   25
#define TARGET_NETBSD_NR_ptrace    26
#define TARGET_NETBSD_NR_recvmsg   27
#define TARGET_NETBSD_NR_sendmsg   28
#define TARGET_NETBSD_NR_recvfrom  29
#define TARGET_NETBSD_NR_accept   30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_accessor  33
#define TARGET_NETBSD_NR_chflags   34
#define TARGET_NETBSD_NR_fchflags  35
#define TARGET_NETBSD_NR_sync      36
#define TARGET_NETBSD_NR_break     37
#define TARGET_NETBSD_NR_compat_43_fstat43  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_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_sigpending13 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_symlink         57
#define TARGET_NETBSD_NR_readlink        58
#define TARGET_NETBSD_NR_execve          59
#define TARGET_NETBSD_NR_umask           60
#define TARGET_NETBSD_NR_chroot          61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork           66
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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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*/
#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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Open Source Used In FXOS Security Module 2.4(1) and Cisco ASA Series 9.10(x)

2784
ifndef TOP
   TOP = $(shell ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
   SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
   for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
   for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done

# *****************************************************************************
# * Copyright (c) 2004, 2008 IBM Corporation
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# * This program and the accompanying materials
# * are made available under the terms of the BSD License
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# *
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# *****************************************************************************/

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

ROOTDIR ?= ../..

LDFLAGS	=  
ASFLAGS	= -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS	= -UDEBUG -m64 -l -linclude -linclude/x86emu \
   -l$(TOP)/clients/net-sn/clients -l$(ROOTDIR)/include \
   -l$(ROOTDIR)/lib/libc/include -lO3 -lstdc++ -l-fno-builtin \
   -l freestanding -Wall -lWno-unused

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

Open Source Used In FXOS Security Module 2.4(1) and Cisco ASA Series 9.10(x)
2785
X86EMU_OBJCS= 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_OBJCS)
$(AR) -rc $@ $^  
$(RANLIB) $@

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

distclean: clean
#******************************************************************************
# * Copyright (c) 2004, 2008 IBM Corporation
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# * This program and the accompanying materials
# * are made available under the terms of the BSD License
# * which accompanies this distribution, and is available at
# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# * IBM Corporation - initial implementation
#******************************************************************************
#!/bin/bash
#set -x
#set -e

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

# check whether svn, patch, ... is available...

if [ ! -x $SVN ]; then
echo "subversion executable not found!"  
exit -1
fi

if [ ! -x $PATCH ]; then
echo "patch executable not found!"  
exit -1
fi
fi
if [ ! -r $DIFF_FILE ]; then
    echo "diff file $DIFF_FILE not found!"
    exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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();
+        }
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
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x
”, target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
    M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+ }
+ 
+ /***************************************************************************/
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+***************************************************************************/
s32 x86emu_bswap(s32 reg)
+
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
```c
+} 
+ } x86emuOp2_bswap(u8 op2)
+ { 
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\n");
+ 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();
} 
@@ -1702,14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
```
/*  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.c Sep 2007 10:01:21 -0000 1.1
+++ ops.c Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
    if (cond) {
        M.x86.R_IP = target;
        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - count = M.x86.R_CX;
    + /* move them until (E)CX is ZERO. */
    + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    +if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
M.x86.R_SI += inc;
M.x86.R_DI += inc;
    + if (M.x86.intr & INTR_HALTED)
        break;
} DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - count = M.x86.R_CX;
    + /* move them until (E)CX is ZERO. */
    + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    +if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
M.x86.R_SI += inc;
M.x86.R_DI += inc;
    + if (M.x86.intr & INTR_HALTED)
        break;
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    val1 = fetch_data_byte(M.x86.R_SI);
    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_byte(val1, val2);
    - M.x86.R_CX -= 1;
    + if (M.x86.mode & SYSMODE_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_DATA) ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
    if (M.x86.intr & INTR_HALTED) break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val1 = fetch_data_long(M.x86.R_SI);
        val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
@@ -2655,11 +2674,16 @@
        val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word((u16)val1, (u16)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.intr & INTR_HALTED)
+ 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.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX = 0;
+ M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} }
while (count--) {
@@ -2795,6 +2826,8 @@
store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
}
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2817,11 +2850,16 @@
 inc = 1;
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
     /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;

     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
 } else {
@@ -2859,9 +2897,11 @@
 count = 1;
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
     /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
     M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
 }
 while (count--) {
@@ -2871,6 +2911,8 @@
     M.x86.R_AX = fetch_data_word(M.x86.R_SI);
 }
 M.x86.R_SI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;

 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -2894,26 +2936,36 @@
 inc = 1;
}
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            - M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_32BIT_REP)
            +                M.x86.R_ECX -= 1;
            else
            +                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            + if (M.x86.intr & INTR_HALTED)
            +                break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
            + /* move them until (E)CX is ZERO. */
            + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(M.x86.R_AL, val2);
                - M.x86.R_CX -= 1;
                + if (M.x86.mode & SYSMODE_32BIT_REP)
                +                    M.x86.R_ECX -= 1;
                else
                +                    M.x86.R_CX -= 1;
                M.x86.R_DI += inc;
                if (ACCESS_FLAG(F_ZF))
                    break; /* zero flag set means equal */
                + if (M.x86.intr & INTR_HALTED)
                +                    break;
            }
            M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
        } else {
            @@ -2951,8 +3003,8 @@
            TRACE_AND_STEP();
            if (M.x86.mode & SYSMODE_PREFIX_REPE) {
                /* REPE */
                - /* move them until CX is ZERO. */
                - while (M.x86.R_CX != 0) {
                + /* move them until (E)CX is ZERO. */
                + 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.mode & SYSMODE_32BIT_REP)
                    +                        M.x86.R_ECX -= 1;
                    else
                    +                        M.x86.R_CX -= 1;
                    M.x86.R_DI += inc;
                    if (ACCESS_FLAG(F_ZF) == 0)
                        break; /* zero flag set means equal */
                    + if (M.x86.intr & INTR_HALTED)
                    +                        break;
                }
                M.x86.mode &= ~SYSMODE_PREFIX_REPE;
            } 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.R_CX != 0) {
                    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                    cmp_byte(M.x86.R_AL, val2);
                    - M.x86.R_CX -= 1;
                    + if (M.x86.mode & SYSMODE_32BIT_REP)
                    +                        M.x86.R_ECX -= 1;
                    else
                    +                        M.x86.R_CX -= 1;
                    M.x86.R_DI += inc;
                    if (ACCESS_FLAG(F_ZF) == 0)
                        break; /* zero flag set means equal */
                    + if (M.x86.intr & INTR_HALTED)
                    +                        break;
                }
                M.x86.mode &= ~SYSMODE_PREFIX_REPE;
            } 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.R_CX != 0) {
                    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                    cmp_byte(M.x86.R_AL, val2);
                    - M.x86.R_CX -= 1;
                    + if (M.x86.mode & SYSMODE_32BIT_REP)
                    +                        M.x86.R_ECX -= 1;
                    else
                    +                        M.x86.R_CX -= 1;
                    M.x86.R_DI += inc;
                    if (ACCESS_FLAG(F_ZF) == 0)
                        break; /* zero flag set means equal */
                    + if (M.x86.intr & INTR_HALTED)
                    +                        break;
                }
                M.x86.mode &= ~SYSMODE_PREFIX_REPE;
            } 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.R_CX != 0) {
                    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                    cmp_byte(M.x86.R_AL, val2);
                    - M.x86.R_CX -= 1;
                    + if (M.x86.mode & SYSMODE_32BIT_REP)
                    +                        M.x86.R_ECX -= 1;
                    else
                    +                        M.x86.R_CX -= 1;
                    M.x86.R_DI += inc;
                    if (ACCESS_FLAG(F_ZF) == 0)
                        break; /* zero flag set means equal */
                    + if (M.x86.intr & INTR_HALTED)
                    +                        break;
                }
                M.x86.mode &= ~SYSMODE_PREFIX_REPE;
            } 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.R_CX != 0) {
                    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                    cmp_byte(M.x86.R_AL, val2);
                    - M.x86.R_CX -= 1;
                    + if (M.x86.mode & SYSMODE_32BIT_REP)
                    +                        M.x86.R_ECX -= 1;
                    else
                    +                        M.x86.R_CX -= 1;
                    M.x86.R_DI += inc;
                    if (ACCESS_FLAG(F_ZF) == 0)
                        break; /* zero flag set means equal */
                    + if (M.x86.intr & INTR_HALTED)
                    +                        break;
                }
                M.x86.mode &= ~SYSMODE_PREFIX_REPE;
            } else {
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.mode & SYSMODE_PREFIX_REP) {
        M.x86.R_ECX -= 1;
    } else {
        M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
    }
}

if (M.x86.mode & SYSMODE_32BIT_REP) {
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
}
else if (M.x86.intr & INTR_HALTED) {
    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;

} /* REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
    /* move them until (E)CX is ZERO. */
    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
        } else if (M.x86.intr & INTR_HALTED) {
            break;
        }
        M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break; /* zero flag set means equal */
    }
    M.x86.R_CX -= 1;
}
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) {
            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;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
                break; /* zero flag set means equal */
        }
        M.x86.R_CX -= 1;
    }
    M.x86.R_CX -= 1;
}
else if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX -= 1;
    else {
        M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break; /* zero flag set means equal */
    }
    M.x86.R_CX -= 1;
}
else if (M.x86.intr & INTR_HALTED) {
    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
}
else {
    @ @ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\r");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
    -RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    +RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    @@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
    -RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
    +RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    @@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\t");
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
    ip = ip + (s16) M.x86.R_IP;
    DECODE_PRINTF("%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();
- if (M.x86.R_CX == 0)
-     M.x86.R_IP = target;
+ if (M.x86.R_CX == 0) {
+     M.x86.R_IP = target;
+     JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x: ", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,14 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
case 4: /* jmp word ptr */
destval = fetch_data_word(destoffset);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;

case 5: /* jmp far ptr */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;

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);
    @@ -2312,16 +2312,15 @@
}
while (count--) {
    single_in(size);
    M.x86.R_DI += inc;
}
M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    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;
} else if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
    /* out until CX is ZERO. */
    /* out until (E)CX is ZERO. */
    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
                 M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
}
```c
#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
    DB(if (DEBUG_IO_TRACE()))
    printk("inb %#04x \n", addr);
    -return inb(addr);
    +return 0;
}
/******************************************************************************
@@ -235,7 +230,7 @@
{
    DB(if (DEBUG_IO_TRACE()))
    printk("inw %#04x \n", addr);
    -return inw(addr);
    +return 0;
}
/******************************************************************************
@@ -250,7 +245,7 @@
{
    DB(if (DEBUG_IO_TRACE()))
    printk("inl %#04x \n", addr);
    -return inl(addr);
    +return 0;
}
/******************************************************************************
@@ -264,7 +259,6 @@
{
    DB(if (DEBUG_IO_TRACE()))
    printk("outb %#02x -> %#04x \n", val, addr);
    -outb(val, addr);
    return;
}
@@ -279,7 +273,6 @@
{
    DB(if (DEBUG_IO_TRACE()))
    printk("outw %#04x -> %#04x \n", val, addr);
    -outw(val, addr);
    return;
}
@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE()))
    printk("outl %#08x -> %#04x \n", val, addr);
```

Open Source Used In FXOS Security Module 2.4(1) and Cisco ASA Series 9.10(x)

@@ -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) \ 
+# define RETURN_TRACE(u,v,w,x,s) \ 
    if (DEBUG_TRACECALLREGS()) \ 
        x86emu_dump_regs(); \ 
    if (DEBUG_TRACECALL()) \ 
        -printk("%04x:%04x: %s\n",u,v,n); 
+    printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x); 
+# define  JMP_TRACE(u,v,w,x,s) \ 
+   if (DEBUG_TRACEJMPREGS()) 
+      x86emu_dump_regs(); 
+   if (DEBUG_TRACEJMP()) 
+      printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x); 
#else 
    # define CALL_TRACE(u,v,w,x,s) 
-# define RETURN_TRACE(n,u,v) 
+# define RETURN_TRACE(u,v,w,x,s) 
+# define  JMP_TRACE(u,v,w,x,s) 
#endif 

#endif DEBUG

Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
 #define SYSMODE_PREFIX_REPNE    0x00000100
 #define SYSMODE_PREFIX_DATA     0x00000200
 #define SYSMODE_PREFIX_ADDR     0x00000400
+# 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    | 
"
/*
 *  mode;
 *  /* mask of pending interrupts */
 *  debug;
 */
 volatile int intr; /* mask of pending interrupts */
 int debug;

 #ifdef DEBUG
 int check;
 #endif

 u32 mode;
 volatile int intr; /* mask of pending interrupts */
 int debug;

 #ifdef DEBUG
 int check;
 #endif

 u16 saved_ip;
 u16 saved_cs;
 int enc_pos;

 void X86EMU_trace_regs(void);

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


 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.h7 Sep 2007 10:01:21 -0000 1.1
 +++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -0000 1.3
 @@ -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_DECODE_NOPRINT_F 0x008000
 #define DEBUG_SAVE_IP_CS_F 0x010000
 +#define DEBUG_TRACEJMP_REGS_F 0x040000
 +#define DEBUG_TRACEJMP_F 0x020000
 #define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
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Version 2, June 1991

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*Version 3, 29 June 2007*

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b) Use a suitable shared library mechanism for linking with the
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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e) Verify that the user has already received a copy of these
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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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1.225 queue.h 1.32.2.7

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*@(#)queue.h 8.5 (Berkeley) 8/20/94
* $FreeBSD: src/sys/sys/queue.h,v 1.32.2.7 2002/04/17 14:21:02 des Exp $
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1.226 queue.h 1.18

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* @(#)queue.h8.5 (Berkeley) 8/20/94
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1.227 rand.c 1.6

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1.228 readline 6.3

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

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

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$Id$

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1.237 run-postinsts 1.0

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1.238 screen 4.3.1 :r0

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### 1.239 sed 4.2.2

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1.244 simple 5.1

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3147
1.256 strnstr UNKNOWN

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1.258 strsep.c 1.11

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1.266 strouq.c 1.9

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
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Makey, Jeff
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Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
The following people have worked to translate sudo into other languages:

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- Bogusz, Jakub
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Regueiro, Leandro
Saré, zgr
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Sikrom, ka
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1.269 syslog-ng 3.6.2
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=====

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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 Bison output files to be licensed under the GNU General Public License without this special exception.

This special exception was added by the Free Software Foundation in version 2.2 of Bison. */

/* 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 yyerror 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
#if defined __cplusplus && 201103L <= __cplusplus
#define YY_NULLPTR nullptr
#else
#define YY_NULLPTR 0
#endif
#endif

/* Enabling verbose error messages. */
#if YYERROR_VERBOSE
#undef 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. */
#if YYDEBUG
#define YYDEBUG 0
#else
#define YYDEBUG 0
#endif
#endif
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
#endif
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_RECVD = 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,
KWIFDEF = 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
```c
#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_RECV 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
/* 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"


```c
#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;

#line 67 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:359 */

#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)
```

---

**Open Source Used In FXOS Security Module 2.4(1) and Cisco ASA Series 9.10(x)**

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

#define YYMAXDEPTH 20000

#line 525 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:359 */

#ifndef short
#    undef short
#endif

#ifndef YYTYPE_UINT8
typedef YYTYPE_UINT8 yytype_uint8;
#else
typedef unsigned char yytype_uint8;
#endif

#ifndef YYTYPE_INT8
typedef YYTYPE_INT8 yytype_int8;
#else
typedef signed char
```
typedef unsigned short int yytype_uint16;
#endif

#ifdef YYTYPE_INT16
typedef YYTYPE_INT16 yytype_int16;
#else
typedef short int yytype_int16;
#endif

#ifndef YYSIZE_T
#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)
#endif

#ifndef YY_
#if defined YYENABLE_NLS && YYENABLE_NLS
#if ENABLE_NLS
#include <libintl.h> /* INFRINGES ON USER NAME SPACE */
#define YY_(Msgid) dgettext ("bison-runtime", Msgid)
#else
#define YY_(Msgid) 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
#endif

#ifndef YY_ATTRIBUTE_UNUSED
#define YY_ATTRIBUTE_UNUSED YY_ATTRIBUTE((__unused__))
#endif

#if !defined _Noreturn 
& & (!defined __STDC_VERSION__ || __STDC_VERSION__ < 201112)
#define _Noreturn __declspec (noreturn)
#else
#define _Noreturn YY_ATTRIBUTE ((__noreturn__))
#endif

/* 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. */
#define YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
Pragma ("GCC diagnostic push")
Pragma ("GCC diagnostic ignored \"-Wuninitialized\"")
Pragma ("GCC diagnostic ignored \"-Wmaybe-uninitialized\"")
#else
#define YY_INITIAL_VALUE(Value) Value
#endif

#ifndef YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
#define YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
#define YY_IGNORE_MAYBE_UNINITIALIZED_END
#endif

#ifndef YY_INITIAL_VALUE
#define YY_INITIAL_VALUE(Value) /* Nothing. */
#endif

#if ! defined yyoverflow || YYERROR_VERBOSE
/* The parser invokes alloca or malloc; define the necessary symbols. */
#if YYSTACK_USE_ALLOCA
#if YYSTACK_USE_ALLOCA
# ifdef __GNUC__
#  define YYSTACK_ALLOC __builtin_alloca
# elif defined __BUILTIN_VA_ARG_INCR
#  include <alloca.h> /* INFRINGES ON USER NAME SPACE */
#  elif defined _AIX
#  define YYSTACK_ALLOC __alloca
#  elif defined _MSC_VER
#  include <malloc.h> /* INFRINGES ON USER NAME SPACE */
#  define alloca _alloca
#  else
#   define YYSTACK_ALLOC alloca
#   if ! defined _ALLOCA_H && ! defined EXIT_SUCCESS
#    include <stdlib.h> /* INFRINGES ON USER NAME SPACE */
#    ifndef EXIT_SUCCESS
#     define EXIT_SUCCESS 0
#    endif
#   endif
#  endif
# endif
# ifdef YYSTACK_ALLOC
/* 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 */
# endif
# else
#  define YYSTACK_ALLOC YYMALLOC
#  define YYSTACK_FREE YYFREE
#  ifndef YYSTACK_ALLOC_MAXIMUM
#   define YYSTACK_ALLOC_MAXIMUM YYSIZE_MAXIMUM
#  endif
#  if (defined __cplusplus && ! defined EXIT_SUCCESS \
    && ! ((defined YYMALLOC || defined malloc) \
       && (defined YYFREE || defined free)))
#    include <stdlib.h> /* INFRINGES ON USER NAME SPACE */
#  endif
#    ifndef EXIT_SUCCESS
#     define EXIT_SUCCESS 0
#    endif
# endif
# endif

/* This module is part of a software stack that is not intended to be 
 * used outside of the software itself. It is not intended to be 
 * portable across different architectures or operating systems. */

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 * the specific language governing rights and limitations under the GNU 
 * General Public License version 2 (GPLv2). */
# if ! defined malloc && ! defined EXIT_SUCCESS
void *malloc (YYSIZE_T); /* INFRINGES ON USER NAME SPACE */
# endif
# endif
#endif
#endif /* ! defined yyoverflow || YYERROR_VERBOSE */

#if (! defined yyoverflow \
   && (! defined __cplusplus \
       || (defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL \
           && defined YYSTYPE_IS_TRIVIAL && YYSTYPE_IS_TRIVIAL)))
/* A type that is properly aligned for any stack member. */
union yyalloc
{
  yytype_int16 yyss_alloc;
  YYSTYPE 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 (YYSTYPE) + 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, yysize); \    
---
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Stack = &yyptr->Stack_alloc;    \\
yynewbytes = yystacksize * sizeof (*Stack) + YYSTACK_GAP_MAXIMUM; \\
yyptr += 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
#endif

/* YYCOPY -- Copy COUNT objects from SRC to DST. The source and destination do not overlap. */
#define YYCOPY(Dst, Src, Count) __builtin_memcpy (Dst, Src, (Count) * sizeof (*(Src)) )

#define YYFINAL 18
#define YYLAST 205
#define YYNTOKENS 159
#define YYNNTS 57
#define YYNRULES 110
#define YYNSTATES 232

#define YYUNDEFTOK 2
#define YYMAXUTOK 10516

#define YYTRANSLATE(YYX)  

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/* YYTRANSLATE[TOKEN-NUM] -- Symbol number corresponding to TOKEN-NUM
   as returned by yylex, without out-of-bounds checking. */

static const yytype_uint8 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,
  153, 154, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
  2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
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3207
Open Source Used In FXOS Security Module 2.4(1) and Cisco ASA Series 9.10(x)

3210
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3211
137, 138, 139, 140, 141, 142, 143, 144, 145, 146,
147, 148, 149, 150, 151, 152
;

#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, 472, 473, 477, 478, 482, 497, 502,
  501, 514, 516, 514, 523, 524, 525, 529, 530, 534,
  553, 557, 557, 565, 566, 570, 575, 586, 596, 605,
  607, 605, 616, 617, 618, 622, 626, 645, 646, 650,
  651, 652, 653, 654, 655, 656, 657, 658, 659, 660,
  664, 676, 681, 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", "Sundefined", "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_normals_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_FRAC_DIGITS", "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_TIME_ZONE", "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_ESCAPE", "KW_OPTIONAL",
"KW_CREATE_DIRS", "KW_OWNER", "KW_GROUP", "KW_PERM", "KW_DIR_OWNER",
"KW_DIR_GROUP", "KW_DIR_PERM", "KW_TEMPLATE", "KW_TEMPLATE_ESCAPE",
"KW_DEFAULT_LEVEL", "KW_DEFAULT_FACILITY", "KW_PORT",
"KW_REUSE_TIME_RECV", "KW_FACILITY", "KW_LEVEL", "KW_HOST", "KW_MATCH",
"KW_MESSAGE", "KW_NETMASK", "KW_TAGS", "KW_VALUE", "KW_REUSE",
"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", "$@1", "$@2", "$@3", "$@4", "$@5", "$@6", "$@7", "$@8",
"source_option", "$@9", "$@10", "$@11", "$@12", "$@13", "$@14", "$@15", "$@16",
"matcher_flags", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ";", ");";
#endif

/* YYTOKNUM[NUM] -- (External) token number corresponding to the
* (internal) symbol number NUM (which must be that of a token). */
static const yytype_uint16 yylTokenNum[] =
{
  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, 10424, 10425, 10426, 10427, 10428, 10429, 10500, 10501, 10502,
10503, 10504, 10505, 10506, 10507, 10508, 10509, 10510, 10511, 10512,
10513, 10514, 10515, 10516, 40, 41, 123, 125, 59, 58
};
#endif

#define YYPLANCT_NINF -106

#define yypact_value_is_default(Yystate)

(!!(Yystate) == (-106))

#define YYTABLE_NINF -45

#define yytable_value_is_error(Yytable_value)

0

/* YYPLANCT[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, -106, -55,
-51, -106, -54, -15, -15, -47, -106, -106,
-106, -106, -75, -49, -44, -106, -6, -6, 17, -106,
-106, -106, -97, -106, -106, -34, -104, -89,
-70, -69, -66, 17, -54, -106, -35, -32, -106, -52,
-41, -29, -97, -106, -82, -31, -25, -34, -106, -75,
-106, -75, -106, -75, -106, -75, -106, 12,
-6, -106, -106, -75, -106, -106, -21, -82, -22,
-106, -75, -106, -106, -16, -30, -20, -11, -10, -9,
-8, -5, -3, -17, -2, -1, -12, -106, -106, 0,
2, -106, -106, 4, 5, -106, -75, 6, -106, -106,
-106, 8, -106, -106, -54, -106, -106, -54, -106,
-20, -20, -106, -17, -17, 9, -75, 10, -75, 11,
13, -56, -106, -106, -106, -54, -106, -106, -106,
-106, -106, 15, 18, 19, 21, 26, 27, 28, 29,
-106, -56, -106, -26, -106, -85, -85, -85, 22, -75,
-75, -75, -106, 30, 31, 32, 33, -106, -106,
-106, -106, 34, 35, 36, 37, 38, 39, 40, 41,
-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[] =
{
  5, 0, 0, 15, 0, 0, 0, 0, 0, 0, 73,
  0, 0, 73, 0, 0, 0, 0, 0, 1, 0,
  0, 2, 71, 0, 91, 5, 5, 0, 81, 82,
  9, 6, 0, 0, 0, 13, 58, 58, 73, 92,
  3, 4, 70, 26, 7, 11, 12, 17, 0, 0,
  0, 0, 0, 73, 0, 69, 0, 0, 72, 0,
  0, 0, 26, 28, 22, 0, 0, 17, 19, 0,
  31, 0, 46, 0, 47, 0, 49, 0, 48, 78,
  58, 74, 75, 0, 29, 10, 25, 0, 22, 0,
  24, 90, 14, 16, 0, 0, 36, 0, 0, 0,
  0, 0, 0, 54, 0, 0, 0, 76, 57, 0,
  0, 0, 23, 90, 0, 88, 59,
  60, 0, 39, 32, 0, 38, 37, 0, 61, 62,
  63, 64, 67, 68, 56, 50, 0, 55, 0, 65,
  66, 80, 27, 30, 0, 110, 89, 18, 41, 33,
  36, 36, 51, 54, 54, 0, 80, 0, 110, 0,
  0, 101, 34, 35, 52, 53, 0, 79, 107, 109,
  108, 40, 0, 0, 0, 0, 0, 0, 0, 0,
  42, 101, 45, 0, 77, 0, 0, 0, 0, 0,
  0, 0, 90, 43, 0, 0, 0, 102, 83,
  84, 85, 0, 0, 0, 0, 0, 0, 0, 0,
  0, 0, 0, 94, 95, 99, 93, 98, 96,
  97, 100, 0, 87, 86, 0, 0, 0, 106, 104,
  103, 105
};

/* YYPGOTO[TERM-NUM]. */
static const yytype_int8 yypgoto[] =
{
  -106, -106, 49, 16, -106, -106, -106, -106, 61, -106,
  106, 20, -72, 113, -106, 14, -14, -94, -106, -23,
  50, -4, -106, -106, -106, -106, 47
};

/* YYDEFGOTO[TERM-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[YPACT[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, 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, 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, 154, 116, 154, 153, 192,
156, 153, 153, -1, 153, 189, 190, 191, 192, 153,
153, 153, 153, 153, 153, -1, 154, 154,
154, 154, 154, 154, 154, 154, 154, 154, 154, 154,
-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, 0, 25,
  30, 199, 200, 201, 157, 210, 210, 200, 128, 131,
  162, 205, 205, 205, 162, 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, 155, 153, 153, 155, 153, 155, 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, 154, 153, 193, 194, 195, 201, 154,
  156, 153, 154, 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, 185, 61, 66, 67, 69, 213, 123,
  124, 129, 206, 206, 206, 129, 205, 205, 205, 208,
  153, 153, 153, 154, 154, 154, 154, 154, 154,
  154, 154, 74, 206, 207, 206, 206, 154, 154,
  154, 154
};

/* YYR1[YYN] -- Symbol number of symbol that rule YYN derives. */
static const yytype_uint8 yyr1[] =
{
}
/* 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, 2, 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   goto yyacceptlab
#define YYABORT    goto yyabortlab
#define YYERROR     goto yyerrorlab
#define YYRECOVERING() (!!yyerrstatus)
#define YYBACKUP(Token, Value) \
  do \ 
    if (yychar == YYEMPTY) \ 
      { \ 

# ifndef YYFPRINTF
#  include <stdio.h> /* INFRINGES ON USER NAME SPACE */
#  define YYFPRINTF fprintf
# endif

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

/* 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
#endif

#define YY_SYMBOL_PRINT(Title, Type, Value, Location)                    
   do { 
    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)
{
YYPRINTF (yyoutput, "%s %s (",
    yytype < YYNTOKENS ? "token" : "nterm", yytname[yytype]);

YYLOCATION_PRINT (yyoutput, *yylocationp);
YYPRINTF (yyoutput, ": ");
yy_symbol_value_print (yyoutput, yytype, yyvaluep, yylocationp, lexer, result, arg);
YYPRINTF (yyoutput, ")");
}

/*------------------------------------------------------------------.
| yy_stack_print -- Print the state stack from its BOTTOM up to its |
| TOP (included).                                                   |
'------------------------------------------------------------------*/

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)

/*------------------------------------------------.
| Report that the YYRULE is going to be reduced. |
'------------------------------------------------*/

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;

    /*-----------------------------------------------------------.
        | Report that the YYRULE is going to be reduced. |
        '-----------------------------------------------------------*/

    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)

/*------------------------------------------------.
| Report that the YYRULE is going to be reduced. |
'------------------------------------------------*/

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); \
    } 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 (*yystr == '"')
{
YYSIZE_T yyn = 0;
char const *yyp = yystr;
for (;;)
switch (*++yyp)
{
case '\'':
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
/* 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.
Return 0 if *YYMSG was successfully written. Return 1 if *YYMSG is
not large enough to hold the message. In that case, also set
*YYMSG_ALLOC to the required number of bytes. Return 2 if the
required number of bytes is too large to store. */
static int
yysyntax_error (YYSIZE_T *yymsg_alloc, char **yymsg,

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void yyerr (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
     "expected"). */
    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 ytname. */
            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 != YYERROR
    && !yytable_value_is_error(yytable[yyx + yyn]))
{
    if (yycount == YYERROR_VERBOSE_ARGS_MAXIMUM)
    {
        yycount = 1;
        yysize = yysize0;
        break;
    }
    yyarg[yycount++] = yytname[yyx];
    {
        YYSIZE_T yysize1 = yysize + yytnamerr (YY_NULLPTR, yytname[yyx]);
        if (! (yysize <= yysize1
            && yysize1 <= YYSTACK_ALLOC_MAXIMUM))
            return 2;
        yysize = yysize1;
    }
}
}

switch (yycount)
{
# define YYCASE_(N, S)                      
     case N:                               
        yyformat = S;                       
        break
YYCASE_(0, YY_("syntax error"));
YYCASE_(1, YY_("syntax error, unexpected %s");
YYCASE_(2, YY_("syntax error, unexpected %s, expecting %s");
YYCASE_(3, YY_("syntax error, unexpected %s, expecting %s or %s");
YYCASE_(4, YY_("syntax error, unexpected %s, expecting %s or %s or %s");
YYCASE_(5, YY_("syntax error, unexpected %s, expecting %s or %s or %s or %s");
# undef YYCASE_
}

{
    YYSIZE_T yysize1 = yysize + yynstrlen (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_ALLOC_MAXIMUM))
        *yymsg_alloc = YYSTACK_ALLOC_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

    YY_IGNORE_MAYBE_UNINITIALIZED_END

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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 reallocate 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 yytoken = 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 yylelen = 0;

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

YYDPRINTF ((stderr, "Starting parse\n"));
yyystate = 0;
yyerrstatus = 0;
yynnerrs = 0;
yychar = YYEMPTY; /* Cause a token to be read. */
yylsp[0] = yylloc;
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;

#if defined 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 (*yyss),
               &yyvs1, yysize * sizeof (*yyvs),
               &yyls1, yysize * sizeof (*yyls),
               &yystacksize);

    yyls = yyls1;
    yyss = yyss1;
    yyvs = yyvs1;
}
#else /* no yyoverflow */
#endif
goto yyexhaustedlab;
#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 (yyssp + yystacksize - 1 <= yyssp)
  YYABORT;
}

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

if (yystate == 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. */
yylen = 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-yylen];

/* Default location. */
YYLOC_DEFAULT (yyloc, (yylsp - yylen), yylen);
YY_REDUCE_PRINT (yyn);
switch (yyn)
{
  case 2:
#line 387 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  { *result = log_expr_node_append_tail((yyvsp[-1].ptr), (yyvsp[0].ptr)); if (yychar != YYEMPTY) {
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[-2].ptr), &(yylsp[-2])), (yyvsp[0].ptr)); }
#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 */
    {

GEError *error = NULL;
CHECK_ERROR_GERROR(log_rewrite_subst_compile_pattern(last_rewrite, (yyvsp[-4].cptr), &error),
(yylsp[-4]), error, "error compiling search pattern");
free((yyvsp[-4].cptr));
(yyval.ptr) = last_rewrite;
}
#endif 2992 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 9:
#endif 421 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{
last_rewrite = log_rewrite_set_new((yyval.ptr), configuration);
log_template_unref((yyval.ptr));
}
#endif 3001 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

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

case 11:
#endif 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));
}
#endif 3013 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 12:
#endif 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));
}
#endif 3019 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

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

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

case 15:


{ Plugin *p;
gint context = LL_CONTEXT_REWRITE;

   p = plugin_find(configuration, context, (yyvsp[0].cptr));
   CHECK_ERROR(p, (yylsp[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, &(yylsp[0]), NULL);
   free((yyvsp[0].cptr));
   if (!last_rewrite)
   {
      YYERROR;
   }
   (yyval.ptr) = last_rewrite;
}

break;

case 18:


{ log_rewrite_groupset_add_fields(last_rewrite, (yyvsp[-1].ptr));
}

break;

case 22:


{ last_matcher_options = log_rewrite_subst_get_matcher_options(last_rewrite); }

break;

case 27:


{ const gchar *p = (yyval[-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", (yyval[-1].cptr)),
         NULL);
      ...
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case 35:
  
  { (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); } 
  
  break;

  #line 524 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
  
  { (yyval.ptr) = NULL; }
  
  #line 3136 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  
  break;

case 37:
  
  { (yyval.ptr) = plugin_find(configuration, context, (yyvsp[0].cptr)); 
    CHECK_ERROR(p, (yylsp[0]), "%s plugin %s not found", 
    cfg_lexer_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 3168 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
  
  break;
case 40:
#line 553 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = (yyvsp[-1].ptr); }
#line 3174 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 41:
#line 557 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { last_driver = afinter_sd_new(configuration);
      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;
}
#endif /* yyin */ /* yacc.c:1646 */
break;
}
#endif /* yyin */ /* yacc.c:1646 */
case 49:
#endif /* yyin */ /* yacc.c:1646 */
case 50:
#endif /* yyin */ /* yacc.c:1646 */
case 51:
#endif /* yyin */ /* yacc.c:1646 */
case 52:
#endif /* yyin */ /* yacc.c:1646 */
case 53:
#endif /* yyin */ /* yacc.c:1646 */
case 54:
#endif /* yyin */ /* yacc.c:1646 */
case 55:
#line 622 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = (yyvsp[0].ptr); }
#line 3267 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 56:
#line 627 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    {
        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",
                    cfg_lexer_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((yyvsp[-1].cptr)); }
#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_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 77:
#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:
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;

#line 3573 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    { }
    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];
yystate = 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;

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yymsg_alloc = sizeof yymsgbuf;
  yysyntax_error_status = 2;
}
else
{
  yysyntax_error_status = YYSYNTAX_ERROR;
  yymsgp = yymsg;
}
}
yyerror (&yylloc, lexer, result, arg, yymsgp);
if (yysyntax_error_status == 2)
goto yyexhaustedlab;
}
#endif
# undef YYSYNTAX_ERROR
#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 will try to reuse lookahead token after shifting the error
   token.  */
goto yyerrlab1;

/*-----------------------------------*/
| yyerrorlab -- error raised explicitly by YYERROR.  |
'|-------------------------------------*/

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] = yyvsp[1-yylen];
/* Do not reclaim the symbols of the rule whose action triggered
   this YYERROR. */
YYPOPSTACK (yylen);
yylen = 0;
YY_STACK_PRINT (yyss, yystack, yysp);
yystate = *yystack;
goto yyerrorlab1;

/*-------------------------------------------------------------.
| yyerrorlab1 -- common code for both syntax error and YYERROR. |
'-------------------------------------------------------------*/

yyerrorlab1:
yyerrstatus = 3; /* Each real token shifted decrements this. */
for (;;) {
  yyn = yypact[yystate];
  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 (yystack == yyn)
    YYABORT;

  yyn = yyerror_range[1] = *yystack;
  yydestruct ("Error: popping",
              yystos[yystate], yyn, yyn, lexer, result, arg);
  YYPOPSTACK (1);
  yyn = *yystack;
  YY_STACK_PRINT (yyss, yyn);
  yyn = yyn += YYTERROR;
  if (0 <= yyn && yyn <= YYLAST && yycheck[yyn] == YYTERROR)
    {
      yyn = yytable[yyn];
      if (0 < yyn)
        break;
    }
}
Open Source Used In FXOS Security Module 2.4(1) and Cisco ASA Series 9.10(x)

YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
*++yyvsp = yyvval;
YY_IGNORE_MAYBE_UNINITIALIZED_END

yyerror_range[2] = yylloc;
/* Using YYLOC is tempting, but would change the location of
   the lookahead. YYLOC is available though. */
YYLOC_DEFAULT (yylloc, yyerror_range, 2);
*++yylsp = yylloc;

/* Shift the error token. */
YY_SYMBOL_PRINT ("Shifting", yystos[yyn], yyvsp, yylsp);

ystate = yyn;
go to yynewstate;

/*-------------------------------------.
| yyacceptlab -- YYACCEPT comes here. |
'-------------------------------------*/
yyacceptlab:
    yyresult = 0;
go to yyreturn;

/*-------------------------------------.
| yyabortlab -- YYABORT comes here. |
'-------------------------------------*/
yyabortlab:
    yyresult = 1;
go to 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);
    yyddestruct ("Cleanup: discarding lookahead", yylloc, yylsp);
}
yytoken, &yyval, &yyloc, 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)
  {
    yyddestruct ("Cleanup: popping",
                 yystos[*yyssp], yyvsp, yylsp, lexer, result, arg);
    YYPOPSTACK (1);
  }
#endif yyoverflow
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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The of the start-stop-daemon

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* in C (faster - it is executed many times during system startup).
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1.272 sysvinit-inittab 2.88dsf

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

Preamble

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Finally, any free program is threatened constantly by software 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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square 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
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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

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

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

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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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David Gibson <david@gibson.dropbear.id.au>
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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
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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

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

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

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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free software which everyone can redistribute and change under these terms.

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

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

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

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

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

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1.293 util-linux 2.26.2

1.293.1 Available under license:

NR START END SECTORS SIZE NAME UUID
1 7936 12799 4864 2.4M
2 12544 16127 3584 1.8M

NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.8M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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
57c721e38d1266c2df055067c18f2cf9 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--------
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
4JM&hC&A
4h
P44O4P4&FCFz("
\W ">CN
@JE#x=Q
]\\%HFYP@R "o""U*R
)Cbw"XZTK8o:"Z][$]-9%m/cB7D4F"N7r;o2&HLP9p]N^g~?<Im9Q++CvT
J0"U-h]Z[EkZMkZP(0@16YSTK6jN]"[SS@SSS/SU$nI] ISHf.1 ]@$I
ISISIH1c!$STA PPPPPU]W[ruU@UYVUUU-mW[UeKJHR
sUE)H:Eu;]jGD;r
#XZ:;[n]} ]@*%Q(8HXo<@ @bdo:6BFJNRVZ^y8y
T(h)"k+j,=*D
y[ ]"pH:ZzZCV]BBaISISISfISB <A<8aUJ7UUUU33333330ISISISPpur8>@]"@ISISIS~M#qr]%x[ ](jVZ:a
H-kWURALvL1HziIPo7R@mb.b.IEE2m"DSyP(Ejwq_X5u fBqXH m+]*5`QrdC:,:1JU@h@@IC-1^nA5a -
7@)Ei.E7qIDP0.5:
)9@@/D].p
BZh91AY&SY"d~@H R h%CFTC@OQ6_@
tJlmAH1||/F0HA]Bak@
#!/bin/bash
#
# This file is part of util-linux.
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#
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#
#
TS_TOPDIR="${0%/*}/../..
TS_DESC="nested BSD"

. ${TS_TOPDIR}/functions.sh
ts_init "$*


ts_check_test_command "STS_CMD_FDISK"
ts_check_test_command "STS_HELPER_SYSINFO"

FDISK_CMD_CREATE_DOSLABEL="o
" # create dos label
FDISK_CMD_SETID="x\u000a01\n" # set non-random ID
FDISK_CMD_WRITE_CLOSE="w
q
" # write to image
FDISK_CMD_CREATE_PRIMARY1="n
p
1

+1M
" # 1st primary partition of size 1MiB
FDISK_CMD_CREATE_PRIMARY2="n\n2\n\n\n" # 2nd primary partition for whole of the disk
FDISK_CMD_CHANGE_PART2TYPE="t
2
a5
" # change partition type FreeBSD
FDISK_CMD_BSD_CREATE="b
u
" # create nested BSD PT
FDISK_CMD_BSD_LIST="b
" # 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
a
7
" # set partition 'a' to type 4.2BSD
FDISK_CMD_BSD_LIST_TYPES="b
" # list supported PT types and quit

#set -x

# BSD disklabel depends on sector/offset and endianess. We convert the md5sums
# into the most common values (little endian, BSD_LABELSECTOR = 1,
# BSD_LABELOFFSET = 0) so that they can be easily compared to the expected
# ones.
BYTE_ORDER=${$TS_HELPER_SYSINFO byte-order}
function fdisk_bsd_offset_and_byte_order_clean
{
  if [ $BYTE_ORDER = "BE" ]; then
    # BSD_LABELSECTOR = 0, BSD_LABELOFFSET = 64
    sed -i \
    -e "s/2273b52976351db75596c47c10b0725/Smd5_bsdimg\LE.0_64/" \n    -e "s/9a234a5b99e37d2ce0d92b65437b93cd/Smd5_bsdimg2\LE.0_64/" \n    "$TS_OUTPUT"
  else
    # BSD_LABELSECTOR = 1, BSD_LABELOFFSET = 0
    sed -i \
    -e "s/0\n90c8a1c2106a4cd4b008f16d71aa6/Smd5_bsdimg\LE.0_64/" \n    -e "s/87a48c26e83d146b866868addc93702/Smd5_bsdimg2\LE.0_64/" \n    "$TS_OUTPUT"
  fi
}

# BSD disklabel depends on sector/offset and endianess. We convert the md5sums
# into the most common values (little endian, BSD_LABELSECTOR = 1,
# BSD_LABELOFFSET = 0) so that they can be easily compared to the expected
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  else
    # BSD_LABELSECTOR = 1, BSD_LABELOFFSET = 0
    sed -i \
    -e "s/0\n90c8a1c2106a4cd4b008f16d71aa6/Smd5_bsdimg\LE.0_64/" \n    -e "s/87a48c26e83d146b866868addc93702/Smd5_bsdimg2\LE.0_64/" \n    "$TS_OUTPUT"
  fi
}

# BSD disklabel depends on sector/offset and endianess. We convert the md5sums
# into the most common values (little endian, BSD_LABELSECTOR = 1,
# BSD_LABELOFFSET = 0) so that they can be easily compared to the expected
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    -e "s/2273b52976351db75596c47c10b0725/Smd5_bsdimg\LE.0_64/" \n    -e "s/9a234a5b99e37d2ce0d92b65437b93cd/Smd5_bsdimg2\LE.0_64/" \n    "$TS_OUTPUT"
  else
    # BSD_LABELSECTOR = 1, BSD_LABELOFFSET = 0
    sed -i \
    -e "s/0\n90c8a1c2106a4cd4b008f16d71aa6/Smd5_bsdimg\LE.0_64/" \n    -e "s/87a48c26e83d146b866868addc93702/Smd5_bsdimg2\LE.0_64/" \n    "$TS_OUTPUT"
  fi
}
BSD_LABELSECTOR = 0, BSD_LABELOFFSET = 64

sed -i \n-e "s/6d760d7a8ef33b7c6e27f1e8807d48/Smd5_bsdimg1_LE_0_64/" \n-e "s/3739c7959ab426936a9ed8b7a99914e8/Smd5_bsdimg2_LE_0_64/" "$TS_OUTPUT"
fi
}

function print_layout {
echo -ne "\n---layout----------\n" >> $TS_OUTPUT
$TS_CMD_FDISK -l ${TEST_IMAGE_NAME}  >> $TS_OUTPUT
echo -ne   "-------------------\n\n" >> $TS_OUTPUT
}

function print_bsd_layout {
echo -ne "\n---layout----------\n" >> $TS_OUTPUT
echo -e "${FDISK_CMD_BSD_LIST}" | 
$TS_CMD_FDISK ${TEST_IMAGE_NAME} >> $TS_OUTPUT
echo -ne   "-------------------\n\n" >> $TS_OUTPUT
}

ts_log "Initialize empty image"
TEST_IMAGE_NAME=$(ts_image_init 10)
ts_image_md5sum >> $TS_OUTPUT 2>&1
ts_log "Create new DOS partition table"
echo -e "${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 >> $TS_OUTPUT 2>&1
print_layout
ts_log "Create 2st primary partition"
echo -e "${FDISK_CMD_CREATE_PRIMARY2}${FDISK_CMD_WRITE_CLOSE}"
 | $TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1
ts_log "Set 2nd partition type"
echo -e "${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)" | 
\$TS_CMD_FDISK \$\{TEST_IMAGE_NAME\} | 
\sed 's/Reading .*/g; s/Welcome to fdisk .*/\\/g' >> $TS_OUTPUT 2>&1

fdisk_bsd_offset_and_byte_order_clean
ts_fdisk_clean \$\{TEST_IMAGE_NAME\}
ts_finalize

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1.294 vim 7.4.769 :r0.0

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" Vim syntax file
" Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001

if version < 600
   " Remove any old syntax stuff hanging around
   syn clear
elseif exists("b:current_syntax")
   finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match  psfUnquotString +[^# ][^#]*+ contained
syn region psfQuotString   start=+"+ skip=+\"+ end=+"+ contained
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

These regions are defined in attempt to do syntax checking for some
of the attributes.

These regions are defined in attempt to do syntax checking for some
of the attributes.
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"
VIM REFERENCE MANUAL  by Bram Moolenaar

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http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

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In FXOS Security Module 2.4(1) and Cisco ASA Series 9.10(x)

context diff will do. The e-mail address to be used is
<maintainer@vim.org>

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==============================================================================
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the
future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a
child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. 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 sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:


The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterrueihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.
1.295 which 2.21 :r3.0

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1.296 wireless-tools 30~pre9 :Tue, 23 Feb 2010 Tim Gardner

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1.300 xmlsec 1.2.20

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References

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1.302 xz/xz-cli-tools 5.2.1 :1.0
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1.303 xz/xz-scripts 5.2.1 :1.0

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

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# 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 environment variables.
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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The data format used by the zlib library is described by RFCs (Request for
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

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