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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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

*/

For the expat xml parser component:

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  /*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996
Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
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1.4 apr-util 1.5.4

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1.9 base-passwd 3.5.29

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.13 boost 1.58.0 :0.0

1.13.1 Available under license:

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

Purely as an implementation detail, this means that
true_type
inherits from <a href="../../../../../libs/mpl/doc/refmanual/bool.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">true_</span></code></a>,
<code class="computeroutput"><a class="link" href="reference/integral_constant.html"
title="integral_constant">false_type</a></code>
inherits from <a href="../../../../../libs/mpl/doc/refmanual/bool.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">false_</span></code></a>,
and <code class="computeroutput"><a class="link" href="reference/integral_constant.html"
title="integral_constant">integral_constant</a><span class="special"><</span><span
class="identifier">T</span><span class="special">,</span>
<span class="identifier">v</span><span class="special">></span></code>
inherits from <a href="../../../../../libs/mpl/doc/refmanual/integral-c.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">integral_c</span><span
class="special"><</span><span class="identifier">T</span><span class="special">,</span><span
class="identifier">v</span><span class="special">></span></code></a>
(provided <code class="computeroutput"><span class="identifier">T</span></code> is not <code
class="computeroutput"><span class="keyword">bool</span></code>)
</p>
</div>
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[section:mpl MPL Interoperability]

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

Purely as an implementation detail, this means that `__true_type` inherits from [Integral Constant type], `__false_type` inherits from [Integral Constant type], and `__integral_constant<T, v>` inherits from [Integral Constant type] (provided `T` is not `bool`)

[endsect]

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

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

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
if not dates:
dates = alldates
start = min(dates)
end = max(dates)
fmt = '{0}' if start.year == end.year else '{0}--{1}'' + author
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*)(\(c\))?\scopyright\(\(c\)?\s+\d{4}(\s+\d{4})?\s+(?P<name>.+?)\s*$', line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
    if len(prefix) != 1:
        print 'Not found:', filename
        return
    prefix = list(prefix)[0]
    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                for repl in new:
                    print >>f, prefix + repl
            else:
                print >>f, line,
    pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename
    for f in all_files():
        fix_copyright(f)
<?xml version="1.0" encoding="utf-8"?>

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-->

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<imagedata align="left"
format="GIF"
fileref="../../../boost.png"
alt="C++ Boost" />
</ulink>-->  
<!--hr /-->
<para>
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 *
*/

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

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

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

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

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

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

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

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

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

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

//
// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
{
    os << "The following files were scanned for boost dependencies:<BR>
";
Open Source Used In FXOS Security Module  2.7(1) and Cisco ASA Series 9.13(1)

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

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]*define\[[:blank:]]*BOOST_VERSION\[[:blank:]]*([\d+]+)\);
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
os << "<p> The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
    << "</P>\n";
}

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
os << "<a name="summary"></a><h2>Licence Summary</h2>";
    while(i != j)
    {
        // title:
os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
os << "<P> This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size()
Open Source Used In FXOS Security Module 2.7(1) and Cisco ASA Series 9.13(1)

// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;

os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
    // title:
    os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << ""></a>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(license_index >= 3)
    {
        // Copyright holders:
        os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:<P><BLOCKQUOTE><P>";
        std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
    os << *x << "<BR>\n";
    ++x;
}
    os << "</P></BLOCKQUOTE>\n";
    // Files using this license:
    os << "<P>This license applies to the following " << i->second.files.size() << " files:<P><BLOCKQUOTE><P>";
        std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>\n";
    ++m;
}
    os << "</P></BLOCKQUOTE>\n";
}
This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).<P>
" ;
        os << " <P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>
" ;
    }
    ++license_index;
    ++i;
}

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

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

// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>"
"<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:" << BLOCKQUOTE << "</p>";
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2) {
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}

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

// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>"
"<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:" << BLOCKQUOTE << "</p>";
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2) {
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}

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

// Output list of authors that we need permission for to move to the BSL
//
<h2>Authors we need for the BSL</h2>

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>.

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

// output a table of copyright information:

```cpp
os << "<tr><td>" << ad->first << "</td><td>
```

```cpp
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;
}
```

```cpp
os << "</tr><hr><br>"
```

```cpp
++ad;
```

```cpp
os << "</table><br>"
```

// output file dependency information:

```cpp
os << "<pre>
```

```cpp
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
```

```cpp
std::set<fs::path, path_less>::const_iterator fi, efi;
```

```cpp
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
```

```cpp
// if in summary mode, just figure out the "bad" files and print those only:
```

```cpp
std::set<fs::path, path_less> bad_paths;
```

```cpp
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>
";
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " - > ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << " <I>(Circular dependency!)</I>
";
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

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

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@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 Petersen(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(aggc@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:

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

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

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///////////////////////////
//
// (C) Copyright Ion Gaztanaga 2005-2013.
//
// 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 BOOST_CONFIG_HPP
#endif BOOST_HAS_PRAGMA_ONCE

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

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

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

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

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

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

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

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

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

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

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

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

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

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

static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

#endif

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

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

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

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

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

const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
{  return x;  }
};
// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T argument_type;
    typedef T result_type;

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

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

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

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

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

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

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

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

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

typedef true_  true_type;
typedef false_ false_type;

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

#endif // BOOST_INTERPROCESS_DETAIL_MPL_HPP
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<class C, typename T1, typename T2>
struct if_c
{
    typedef T1 type;
};

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

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

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

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

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

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

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

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

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

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

template <typename T, typename U>
struct is_same
{
    static const bool value = false;
};

#endif   //#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
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<T&>
{
    typedef T type;
};

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

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

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

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

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

template< class Integer, Integer Value >
struct integer  
{  static const Integer value = Value;
};

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

typedef true_ true_type;
typedef false_ false_type;

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

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

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

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

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

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

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

#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 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)   

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)
    template <typename T, typename DefaultType>
    struct boost_intrusive_eval_default_type_##TNAME
    {
        template <typename X>
        static char test(int, typename X::TNAME*);

        template <typename X>
        static int test(...);

        struct DefaultWrap
        {
            typedef typename DefaultType::type TNAME;
        };

        static const bool value = (1 == sizeof(test<T>(0, 0)));

        typedef typename ::boost::intrusive::detail::eval_if_c
        < value,
          ::boost::intrusive::detail::identity<T>,
          ::boost::intrusive::detail::identity<DefaultWrap>
        >::type::TNAME type;
    };

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

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND)
    template <class T>
    struct TRAITS_PREFIX##_bool
    {
        template<bool Add>
        struct two_or_three {one _[2 + Add];};

        template <class U> static one test(...);

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

    template <class T>
    struct TRAITS_PREFIX##_bool_is_true
&
static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(one)*2;
&
//
#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(TRAITS_NAME##_ignore_signature, FUNC_NAME)
    
    template <typename Type, class> \
    struct TRAITS_NAME \
    : public TRAITS_NAME##_ignore_signature<Type> \
    {}
    //
template <typename T>
inline T* addressof(T& obj)
{
    return static_cast<T*>(
        reinterpret_cast<const char&>(obj));
}
} //namespace intrusive
} //namespace boost

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

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1.14 bridge-utils 1.5

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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

### 1.21 cracklib 2.9.5 :0.0

#### 1.21.1 Available under license:

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Version 2.1, February 1999

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\*L
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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 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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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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^L

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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!

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

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

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

------------------------------------------------------------
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.
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> the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didnt notice the license change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writes what license they should be using.
> thus LGPL-2.1 enters to fill this void.
> -mike
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

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

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

-mike

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

yes, go for it. thanks++

-a

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

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

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

-mike

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

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

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

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

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

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTPT id 191Gxptr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTPT id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (hello=[192.168.1.3])
    by rutherford.zen.co.uk with esmtpt (Exim 4.50)
    id 1iOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2B341B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=UTF-8; delsp=yes; format=fixed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E69F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-Originating-Response-Time: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> Forwarded message
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

1.22 cronie 1.5.0

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

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1.23 cryptsetup 1.6.7

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

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* 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.
1.29 Diffutils 3.3

1.29.1 Available under license:

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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

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1.33 dosfstools 3.0.28

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

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-
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package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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Version 2, June 1991

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

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1.38 elfutils 0.163 :0

1.38.1 Available under license :

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1.49 gawk 4.1.3

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

That's all there is to it!

1.50 gcc-runtime 5.2.0

1.50.1 Available under license:

    \" Automatically generated by Pod::Man 2.28 (Pod::Simple 3.29)
    \" Standard preamble:
    \" ========================================================================
    .de Sp \" Vertical space (when we can't use .PP)
    .if t .sp .5v
    .if n .sp
    \.
    .de Vb \" Begin verbatim text
    .ft CW
    .nf
    .ne \$1
    \.
    .de Ve \" End verbatim text
    .ft R
    .fi
.. 'Set up some character translations and predefined strings. \*(-- will
'give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
'double quote, and \*(R" will give a right double quote. \*(C+ will
'give a nicer C++. Capital omega is used to do unbreakable dashes and
'therefore won't be available. \*(C- and \*(C' expand to ' in nroff,
'nothing in troff, for use with C<>.
..tr \(*W-
..ds C+ C\'v'-.1\'p\'s-2+'h'-'1p\'+\'s0\'v'.'1\'h'-'1p'
..ie n \{
  . ds -- \(*W-
  . ds PI pi
  . if (\(n(.H=4u)&(1m=24u) .ds -- \(*W\'h'-'12u\'(\*W\'h'-'12u\'-\l")
    \(diablo 10 pitch
  . if (\(n(.H=4u)&(1m=20u) .ds -- \(*W\'h'-'12u\'(\*W\'h'-'8u\'-\l")
    \(diablo 12 pitch
  . ds L" "
  . ds R" "
  . ds C- "
  . ds C' "
  'br}
..el\{
  . ds -- \(em\)
  . ds PI \"p
  . ds L" "
  . ds R" "
  . ds C-
  . ds C'
  'br}
..tr
..Escape single quotes in literal strings from groff's Unicode transform.
..ie \(n(.g .ds Aq \(aq
..el 
  .ds Aq ' 
..tr
..If the F register is turned on, we'll generate index entries on stderr for
'titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
'entries marked with X<> in POD. Of course, you'll have to process the
'output yourself in some meaningful fashion.
..tr
..Avoid warning from groff about undefined register 'F'.
..de IX
..nr rF 0
..if \(n(g .if rF .nr rF 1
..if (\(nrF:(\n(g==0)) \{
  . if \(nF \{
    . de IX
    . tm Index:\$1\$n\%\$t\$2"
..if \nF==2 \{

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

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

fudge factors for nroff and troff

simple accents for nroff and troff

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```
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```

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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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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# Run this script with the first argument being the location of
# gnulib's update-copyright script. Any other arguments are ignored.
# FSF copyright notices in the glibc source directory containing this
# script will be updated; glibc must then be built to update generated
# files. Copyright dates in --version copyright notices are not
# updated.
set -e
export LC_ALL=C
export UPDATE_COPYRIGHT_FORCE=1
export UPDATE_COPYRIGHT_USE_INTERVALS=2
export UPDATE_COPYRIGHT_MAX_LINE_LENGTH=79
update_script=$1
if ! [ -f "$update_script" ]; then
echo "error: first argument must point to gnulib update-copyright script" >&2
exit 1
fi
cd "$(dirname "$0")/.."
files=$(find . -type f | sed 's|^\./||' | grep -v '^\.git/')
for f in $files; do
case $f in
COPYING | COPYING.LIB | manual/fdl-1.3.texi | manual/lgpl-2.1.texi)
# Licenses imported verbatim from FSF sources.
;;
manual/texinfo.tex | scripts/config.guess | scripts/config.sub \
| scripts/install-sh | scripts/mkinstalldirs | scripts/move-if-change)
# Other files imported verbatim from other GNU repositories.
;;
po/*.po)
# Files imported verbatim from the Translation Project.
;;
INSTALL | intl/plural.c | locale/C-translit.h \
| locale/programs/charmap-kw.h | locale/programs/locfile-kw.h \
| po/libc.pot | sysdeps/gnu/errlist.c)
# Generated files.
;;
configure | */configure | preconfigure | */preconfigure)
# Possibly generated files.
if ! [ -f "$f.ac" ]; then
"$update_script" "$f"
fi
;;

Open Source Used In FXOS Security Module 2.7(1) and Cisco ASA Series 9.13(1)
960


grplinitgroups.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"

esac
done

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Version 3, 29 June 2007

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1.62 icu 51.2 :r0
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$((CC) -E -MM $(DEFS) $(CPPFLAGS))
GEN_DEPS.cc=$((CXX) -E -MM $(DEFS) $(CPPFLAGS))

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

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

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

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

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

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

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

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

## Versioned libraries rules

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

## End FreeBSD-specific setup

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1.63 Inetutils 1.9.4

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1.72 json-c 0.12
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1.73 json-c/test-driver 0.12

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```bash
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scriptversion=2012-06-27.10; # UTC

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1.78 krb5 1.13.2

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
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/prop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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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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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
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1.84 libcgroup 0.41
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1.91 libnfsidmap 0.25

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application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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with the Library, with the complete machine-readable "work that
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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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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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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from a designated place, offer equivalent access to copy the above
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1.99 libssh2 1.6.0

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1.100 libtalloc 2.1.3 :r0

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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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
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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.
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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

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

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

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...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

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for the tda1004x frontend driver, and various bugfixes

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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>
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Peter Beutner <p.beutner@gmx.net>
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Michael Krufty <mkrufty@linuxtv.org>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the ntx2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the ntx2004 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
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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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  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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1.129 nettle 3.1.1 :r0.0

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/* .*- .*- Mode: Text .*- .*/

copyright = {
  date = "1992-2017";
  owner = "The University of Delaware and Network Time Foundation";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type = ntp;
};
long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=`\sed -e 's/\.*\(\*/\-e \s/\*/\ < ../snntp/m4/version.m4`
[ -z "$\{VERSION\}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = "/\# Don't use -v as a shortcut for --version */

/*
* HMS: man pages already have this, and texi pages can use the
* values in snntp/include/version.texi.
*/
// doc-sub = {
//     sub-name = version;
//     sub-text = 's/#VERSION#/<<version>>/g';
// }

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

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

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Open Source Used In FXOS Security Module 2.7(1) and Cisco ASA Series 9.13(1)

1.137 os-release 1.0 :r0.0
1.137.1 Available under license :
   From RPM File Metadata:MIT

1.138 ossp-uuid 1.6.2 :r2
1.138.1 Available under license :

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

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Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (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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ABSTRACT

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

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

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This file is part of OSSP uuid, a library for the generation of UUIDs which can found at http://www.ossp.org/pkg/lib/uuid/

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HOME AND DOCUMENTATION

The documentation and latest release can be found on

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

OSSP uuid - Universally Unique Identifier

AUTHORS

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

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OSSP uuid - Universally Unique Identifier

THANKS

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1.139 packagegroup-core-boot 1.0 :r17.0

1.139.1 Available under license :
From RPM File Metadata:MIT

1.140 pam-ldap 184

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

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

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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.

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<signature of Ty Coon>, 1 April 1990
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1.145 pcre 8.37

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THE BASIC LIBRARY FUNCTIONS

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

Written by: Philip Hazel
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Email domain: cam.ac.uk
PCRE JUST-IN-TIME COMPILATION SUPPORT
-------------------------------------

Written by:       Zoltan Herczeg
Email local part: hzmester
Email domain:     freemail.hu

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The End
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.",
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.6 of 6 September 2010
Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

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

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

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }
if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}
my ($opt) = @ARGV;

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

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

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

done_testing;

sub readme_year
    # returns the latest copyright year from the top-level README file
    {
        open my $readme, '<', '../README' or die "Opening README failed: $!";

        # The copyright message is the first paragraph:
        local $/ = ''; 
        my $copyright_msg = <$readme>;

        my ($year) = $copyright_msg =~ /.*\d{4,}/; 
        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.*\d{4,}/i; 
        or die "Copyright statement not found in perl -v output $output";

        $year;
    }

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1.147 pigz-native 2.3.3

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Mark Adler
Jyrki Alakuijala
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1.155 python 2.7.9

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

*/
* FreeBSD strace list
*
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*/

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s\"", %d, %#x)"}, NULL, NULL },
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{ TARGET_FREEBSD_NR_adctime, "adctime", NULL, NULL },
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{ TARGET_FREEBSD_NR_break, "break", NULL, NULL },
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{ 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 },
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{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
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{ 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_list, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s("%s","%d")", NULL, NULL },
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{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s("%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_mmap, "mmap"\}, NULL, NULL, NULL, print_syscall_ret_addr \},
\{ 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_msgsnd, "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,
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\{ TARGET_FREEBSD_NR_open, "open"\}, "%s(\%s,\%#x,\%#o)"\}, NULL, NULL,
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\{ TARGET_FREEBSD_NR_pipe, "pipe"\}, NULL, NULL, NULL,
\{ TARGET_FREEBSD_NR_poll, "poll"\}, NULL, NULL, NULL,
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\{ TARGET_FREEBSD_NR_preadv, "preadv"\}, NULL, NULL, NULL,
\{ TARGET_FREEBSD_NR_prof, "profil"\}, NULL, NULL, NULL,
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\{ TARGET_FREEBSD_NR_readlink, "readlink"\}, "%s(\%s,\%p,\%d)"\}, NULL, NULL,
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\{ TARGET_FREEBSD_NR_sendto, "sendto"\}, NULL, NULL, NULL,
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\{ 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,
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David Gibson <david@gibson.dropbear.id.au>
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2 November 2007
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-- Wolfgang Denk

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/*
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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %#d, %#x, %#x)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%#d,%#x,%#x)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("%s",%#o)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adptime, "adptime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s("%s")" }, NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s",%#o)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%#d)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%#d,%#x,%d)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s("%s",%#x)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execute, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%#d)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s("%s",%#d,"%s",%#x,"%s")" }, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%#d,"%s",%d)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s("%s",%d,"%s")" }, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s("%s",%d,"%s")" }, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%#d,"%s",%d)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s("%s",%d,"%s",%#x)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "extattr_get_link", "%s("%s",%d,"%s",%#x)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%#d,"%s",%d)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s("%s",%d,"%s")" }, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s("%s",%d,"%s")" }, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%#d,"%s",%d)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("%s",%d,"%s")" }, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s",%d,"%s")" }, 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_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", 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, print_syscall_ret_addr },
{ 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_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_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 },
{ 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_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s",%"s")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d,%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },

{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_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_shmct1, "shmct1", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdat, "shmdat", 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_signalstack, "signalstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sipending, "sipending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_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",%p)" , NULL, NULL },
{ TARGET_FREEBSD_NR_systime, "%s("%s",%p)" , NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_th_create, "thr_create", "%s(%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_exit, "thr_exit", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_kil1, "thr_kil1", "%s(%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_kil2, "thr_kil2", "%s(%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_new, "thr_new", "%s(%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_self, "thr_self", "%s(%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_th_setname, "thr_setname", "%s("%s",%p)" , NULL, NULL },
{ TARGET_FREEBSD_NR_th_suspend, "thr_suspend", "%s(%d,%d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", 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,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
/
* System call numbers.
*
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
    /* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink 10
    /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
    /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_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_getsockopt    32
#define TARGET_FREEBSD_NR_access        33
#define TARGET_FREEBSD_NR_fchflags      34
#define TARGET_FREEBSD_NR_sync          35
#define TARGET_FREEBSD_NR_sync          36
#define TARGET_FREEBSD_NR_getppid       37
#define TARGET_FREEBSD_NR_getsockopt    38
#define TARGET_FREEBSD_NR_getlogin      39
#define TARGET_FREEBSD_NR_setlogin      40
#define TARGET_FREEBSD_NR_acct          41
#define TARGET_FREEBSD_NR_getlogin      42
#define TARGET_FREEBSD_NR_setlogin      43
#define TARGET_FREEBSD_NR_acct          44
#define TARGET_FREEBSD_NR_getlogin      45
#define TARGET_FREEBSD_NR_setlogin      46
#define TARGET_FREEBSD_NR_acct          47
#define TARGET_FREEBSD_NR_getlogin      48
#define TARGET_FREEBSD_NR_setlogin      49
#define TARGET_FREEBSD_NR_acct          50
#define TARGET_FREEBSD_NR_getlogin      51
#define TARGET_FREEBSD_NR_setlogin      52
#define TARGET_FREEBSD_NR_acct          53
#define TARGET_FREEBSD_NR_getlogin      54
#define TARGET_FREEBSD_NR_setlogin      55
#define TARGET_FREEBSD_NR_acct          56
#define TARGET_FREEBSD_NR_getlogin      57
#define TARGET_FREEBSD_NR_setlogin      58
#define TARGET_FREEBSD_NR_acct          59
#define TARGET_FREEBSD_NR_getlogin      60
#define TARGET_FREEBSD_NR_setlogin      61
#define TARGET_FREEBSD_NR_acct          62
#define TARGET_FREEBSD_NR_getlogin      63
#define TARGET_FREEBSD_NR_setlogin      64
#define TARGET_FREEBSD_NR_acct          65
#define TARGET_FREEBSD_NR_getlogin      66
#define TARGET_FREEBSD_NR_setlogin      67
#define TARGET_FREEBSD_NR_acct          68
#define TARGET_FREEBSD_NR_getlogin      69
#define TARGET_FREEBSD_NR_setlogin      70
#define TARGET_FREEBSD_NR_acct          71
#define TARGET_FREEBSD_NR_getlogin      72
#define TARGET_FREEBSD_NR_setlogin      73
#define TARGET_FREEBSD_NR_acct          74
#define TARGET_FREEBSD_NR_getlogin      75
#define TARGET_FREEBSD_NR_setlogin      76
#define TARGET_FREEBSD_NR_acct          77
#define TARGET_FREEBSD_NR_getlogin      78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_getpriority 100
/* 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_setsockopt 123
#define TARGET_FREEBSD_NR_setsockopt 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setsockopt 126
#define TARGET_FREEBSD_NR_setsockopt 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_mkdir 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_rmdir 136
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
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/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */

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

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
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#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_getrlimit 205
#define TARGET_OPENBSD_NR_change 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR___xfspioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_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_sha1get 289
#define TARGET_OPENBSD_NR_sha1semop 290
#define TARGET_OPENBSD_NR_sha1stat 291
#define TARGET_OPENBSD_NR_sha1fstat 292
#define TARGET_OPENBSD_NR_sha1lstat 293
#define TARGET_OPENBSD_NR_sha1fhstat 294
#define TARGET_OPENBSD_NR_sha1semctl 295
#define TARGET_OPENBSD_NR_sha1shmctl 296
#define TARGET_OPENBSD_NR_sha1msgctl 297
#define TARGET_OPENBSD_NR_sha1sched_yield 298
#define TARGET_OPENBSD_NR_sha1getthrid 299
#define TARGET_OPENBSD_NR_sha1thrsleep 300
#define TARGET_OPENBSD_NR_sha1thrwakeup 301
#define TARGET_OPENBSD_NR_sha1threxit 302
#define TARGET_OPENBSD_NR_sha1thsigdivert 303
#define TARGET_OPENBSD_NR_sha1getcwd 304
#define TARGET_OPENBSD_NR_sha1adjfreq 305
#define TARGET_OPENBSD_NR_sha1getfsstat 306
#define TARGET_OPENBSD_NR_sha1statfs 307
#define TARGET_OPENBSD_NR_sha1fstatfs 308
#define TARGET_OPENBSD_NR_sha1fhstatfs 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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 */
#define TARGET_EPERM 1 /* Operation not permitted */
#define TARGET_ENOENT 2 /* No such file or directory */
#define TARGET_ESRCH 3 /* No such process */
#define TARGET_EINTR 4 /* Interrupted system call */
#define TARGET_EIO 5 /* Input/output error */
#define TARGET_ENXIO 6 /* Device not configured */
#define TARGET_E2BIG 7 /* Argument list too long */
#define TARGET_ENOEXEC 8 /* Exec format error */
#define TARGET_EBADF 9 /* Bad file descriptor */
#define TARGET_ECHILD 10 /* No child processes */
#define TARGET_EDEADLK 11 /* Resource deadlock avoided */
/* 11 was EAGAIN */
#define TARGET_ENOMEM 12 /* Cannot allocate memory */
#define TARGET_EACCES 13 /* Permission denied */
#define TARGET_EFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET_ENFILE 23 /* Too many open files in system */
#define TARGET_EMFILE 24 /* Too many open files */
#define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Illegal seek */
#define TARGET_EROFS 30 /* Read-only file system */
#define TARGET_EMLINK 31 /* Too many links */
#define TARGET_EPIPE 32 /* Broken pipe */

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

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */
# define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
# define TARGET_EDESTADDRREQ 39 /* Destination address required */
# define TARGET_EMMSIZE 40 /* Message too long */
# define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
# define TARGET_ENOPROTOOPT 42 /* Protocol not available */
# define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
# define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
# define TARGET_EOPNOTSUPP 45 /* Operation not supported */
# define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
# define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
# define TARGET_EADDRINUSE 48 /* Address already in use */
# define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* should be rearranged */
# define TARGET_ENETDOWN 50 /* Network is down */
# define TARGET_ENETUNREACH 51 /* Network is unreachable */
# define TARGET_ENETRESET 52 /* Network dropped connection on reset */
# define TARGET_ECONNABORTED 53 /* Software caused connection abort */
# define TARGET_ECONNRESET 54 /* Connection reset by peer */
# define TARGET_ENOBUFS 55 /* No buffer space available */
# define TARGET_EISCONN 56 /* Socket is already connected */
# define TARGET_ENOTCONN 57 /* Socket is not connected */
# define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
# define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
# define TARGET_ETIMEDOUT 60 /* Operation timed out */
# define TARGET_ECONNREFUSED 61 /* Connection refused */
# define TARGET_ELOOP 62 /* Too many levels of symbolic links */
# define TARGET_ENAMETOOLONG 63 /* File name too long */

/* 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_EPROGMISMATCH 74 /* Program version wrong */
# 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_EMEDTYPE   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 fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall     0
#define TARGET_NETBSD_NR_exit        1
#define TARGET_NETBSD_NR_fork        2
#define TARGET_NETBSD_NR_read        3
#define TARGET_NETBSD_NR_write       4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link        9
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
#define TARGET_NETBSD_NR_chown       16
#define TARGET_NETBSD_NR_break       17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_oselk 19
#define TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_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_sigpending 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
#define TARGET_NETBSD_NR_vfork 69
#define TARGET_NETBSD_NR_sstk 70
#define TARGET_NETBSD_NR_compat_43_ommap 71
#define TARGET_NETBSD_NR_vadvise 72
#define TARGET_NETBSD_NR_munmap 73
#define TARGET_NETBSD_NR_mprotect 74
#define TARGET_NETBSD_NR_madvise 75
#define TARGET_NETBSD_NR_mincore 78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#define TARGET_NETBSD_NR_getpgrp 81
#define TARGET_NETBSD_NR_setpgid 82
#define TARGET_NETBSD_NR_setitimer 83
#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85
#define TARGET_NETBSD_NR_getitimer 86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_osethostname 88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2 90
#define TARGET_NETBSD_NR_fcntl 92
#define TARGET_NETBSD_NR_select 93
#define TARGET_NETBSD_NR_fsyst 95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect 98
#define TARGET_NETBSD_NR_compat_43_oaccept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend 101
#define TARGET_NETBSD_NR_compat_43_orecv 102
#define TARGET_NETBSD_NR_compat_13_sigreturn13 103
#define TARGET_NETBSD_NR_bind 104
#define TARGET_NETBSD_NR_setsockopt 105
#define TARGET_NETBSD_NR_listen 106
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_43_osigsetmask 111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg 113
#define TARGET_NETBSD_NR_compat_43_osendmsg 114
#define TARGET_NETBSD_NR_gettimeofday 116
#define TARGET_NETBSD_NR_getrusage 117
#define TARGET_NETBSD_NR_getsockopt 118
#define TARGET_NETBSD_NR_readv 120
#define TARGET_NETBSD_NR_writev 121
#define TARGET_NETBSD_NR_settimeofday 122
#define TARGET_NETBSD_NR_setsockopt 123
#define TARGET_NETBSD_NR_fchown 124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setregid 127
#define TARGET_NETBSD_NR_rename 128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate 130
#define TARGET_NETBSD_NR_flock 131
#define TARGET_NETBSD_NR_mkfifo 132
#define TARGET_NETBSD_NR_sendto 133
#define TARGET_NETBSD_NR_shutdown 134
#define TARGET_NETBSD_NR_socketpair 135
#define TARGET_NETBSD_NR_mkdir 136
#define TARGET_NETBSD_NR_rmdir 137
#define TARGET_NETBSD_NR_utimes 138
#define TARGET_NETBSD_NR_adjtime 140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
#define TARGET_NETBSD_NR_compat_43_ogethostid 142
#define TARGET_NETBSD_NR_compat_43_osethostid 143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144
#define TARGET_NETBSD_NR_compat_43_osetrlimit 145
#define TARGET_NETBSD_NR_compat_43_okillpg 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_ouquota 149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc 155
#define TARGET_NETBSD_NR_compat_43_43_ogetdirententries 156
#define TARGET_NETBSD_NR_compat_20_statfs 157
#define TARGET_NETBSD_NR_compat_20_fstatfs 158
#define TARGET_NETBSD_NR_compat_30_getfh 159
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 160
#define TARGET_NETBSD_NR_compat_09_osetdomainname 161
#define TARGET_NETBSD_NR_compat_09_ouname 162
#define TARGET_NETBSD_NR_sysarch 163
#define TARGET_NETBSD_NR_compat_10_osemsys 164
#define TARGET_NETBSD_NR_compat_10_omsgsys 165
#define TARGET_NETBSD_NR_compat_10_oshmsys 166
#define TARGET_NETBSD_NR_pread 167
#define TARGET_NETBSD_NR_pwrite 168
#define TARGET_NETBSD_NR_compat_30_ntp_gettime 169
#define TARGET_NETBSD_NR_ntp_adjtime 170
#define TARGET_NETBSD_NR_setgid 171
#define TARGET_NETBSD_NR_setegid 172
#define TARGET_NETBSD_NR_seteuid 173
#define TARGET_NETBSD_NR_lfs_bmapv 174
#define TARGET_NETBSD_NR_lfs_markv 175
#define TARGET_NETBSD_NR_lfs_segwait 176
#define TARGET_NETBSD_NR_lfs_segclean 177
#define TARGET_NETBSD_NR_compat_12_stat12 188
#define TARGET_NETBSD_NR_compat_12_fstat12 189
#define TARGET_NETBSD_NR_compat_12_lstat12 190
#define TARGET_NETBSD_NR_pathconf 191
#define TARGET_NETBSD_NR_fpathconf 192
#define TARGET_NETBSD_NR_getrlimit 194
#define TARGET_NETBSD_NR_setrlimit 195
#define TARGET_NETBSD_NR_compat_12_getdirentries 196
#define TARGET_NETBSD_NR_mmap 197
#define TARGET_NETBSD_NR___syscall 198
#define TARGET_NETBSD_NR_lseek 199
#define TARGET_NETBSD_NR_truncate 200
#define TARGET_NETBSD_NR_ftruncate 201
#define TARGET_NETBSD_NR___sysctl 202
#define TARGET_NETBSD_NR_mlock 203
#define TARGET_NETBSD_NR_munlock 204
#define TARGET_NETBSD_NR_undelete 205
#define TARGET_NETBSD_NR_futimes 206
#define TARGET_NETBSD_NR_getpgid 207
#define TARGET_NETBSD_NR_reboot 208
#define TARGET_NETBSD_NR_poll 209
#define TARGET_NETBSD_NR_compat_14___semctl 220
#define TARGET_NETBSD_NR_semget 221
#define TARGET_NETBSD_NR_semop 222
#define TARGET_NETBSD_NR_semconfig 223
#define TARGET_NETBSD_NR_compat_14_msgctl 224
#define TARGET_NETBSD_NR_msgget 225
#define TARGET_NETBSD_NR_msgsnd 226
#define TARGET_NETBSD_NR_msgrcv 227
#define TARGET_NETBSD_NR_shmat 228
#define TARGET_NETBSD_NR_compat_14_shmctl 229
#define TARGET_NETBSD_NR_shmdt 230
#define TARGET_NETBSD_NR_shmget 231
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime 233
#define TARGET_NETBSD_NR_clock_getres 234
#define TARGET_NETBSD_NR_timer_create 235
#define TARGET_NETBSD_NR_timer_delete 236
#define TARGET_NETBSD_NR_timer_settime 237
#define TARGET_NETBSD_NR_timer_gettime 238
#define TARGET_NETBSD_NR_timer_getoverrun 239
#define TARGET_NETBSD_NR_nanosleep 240
#define TARGET_NETBSD_NR_fdatasync 241
#define TARGET_NETBSD_NR_mlockall 242
#define TARGET_NETBSD_NR_munlockall 243
#define TARGET_NETBSD_NR___sigtimedwait 244
#define TARGET_NETBSD_NR_modctl 246
#define TARGET_NETBSD_NR___ksem_init 247
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#define TARGET_NETBSD_NR__ksem_open  248
#define TARGET_NETBSD_NR__ksem_unlink  249
#define TARGET_NETBSD_NR__ksem_close  250
#define TARGET_NETBSD_NR__ksem_post  251
#define TARGET_NETBSD_NR__ksem_wait  252
#define TARGET_NETBSD_NR__ksem_trywait  253
#define TARGET_NETBSD_NR__ksem_getvalue  254
#define TARGET_NETBSD_NR__ksem_destroy  255
#define TARGET_NETBSD_NR__ksem_destroy  255
#define TARGET_NETBSD_NR_mq_open  257
#define TARGET_NETBSD_NR_mq_close  258
#define TARGET_NETBSD_NR_mq_unlink  259
#define TARGET_NETBSD_NR_mq_unlink  259
#define TARGET_NETBSD_NR_mq_getattr  260
#define TARGET_NETBSD_NR_mq_setattr  261
#define TARGET_NETBSD_NR_mq_getattr  261
#define TARGET_NETBSD_NR_mq_notify  262
#define TARGET_NETBSD_NR_mq_send  263
#define TARGET_NETBSD_NR_mq_send  263
#define TARGET_NETBSD_NR_mq_receive  264
#define TARGET_NETBSD_NR_mq_timedsend  265
#define TARGET_NETBSD_NR_mq_timedsend  265
#define TARGET_NETBSD_NR_mq_timedreceive  266
#define TARGET_NETBSD_NR___posix_rename  270
#define TARGET_NETBSD_NR_swapctl  271
#define TARGET_NETBSD_NR_swapctl  271
#define TARGET_NETBSD_NR_compat_30_getdents  272
#define TARGET_NETBSD_NR_minherit  273
#define TARGET_NETBSD_NR_lchmod  274
#define TARGET_NETBSD_NR_lchown  275
#define TARGET_NETBSD_NR_lutimes  276
#define TARGET_NETBSD_NR___msync13  277
#define TARGET_NETBSD_NR___stat13  278
#define TARGET_NETBSD_NR_compat_30___stat13  278
#define TARGET_NETBSD_NR_compat_30___fstat13  279
#define TARGET_NETBSD_NR_compat_30___lstat13  280
#define TARGET_NETBSD_NR___sigaltstack14  281
#define TARGET_NETBSD_NR___vfork14  282
#define TARGET_NETBSD_NR___posix_chown  283
#define TARGET_NETBSD_NR___posix_chown  283
#define TARGET_NETBSD_NR___posix_fchown  284
#define TARGET_NETBSD_NR___posix_fchown  284
#define TARGET_NETBSD_NR___posix_lchown  285
#define TARGET_NETBSD_NR___posix_lchown  285
#define TARGET_NETBSD_NR_getsid  286
#define TARGET_NETBSD_NR___clone  287
#define TARGET_NETBSD_NR_fkrace  288
#define TARGET_NETBSD_NR_preadv  289
#define TARGET_NETBSD_NR_pwritev  290
#define TARGET_NETBSD_NR_compat_16___sigaction14  291
#define TARGET_NETBSD_NR___sigpending14  292
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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
```

/* $FreeBSD: src/sys/sys/mman.h,v 1.42 2008/03/28 04:29:27 ps Exp $ */

/*-.
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*
*   @(#)mman.h     8.2 (Berkeley) 1/9/95
*/

#define TARGET_NETBSD_MAP_INHERIT   0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED   0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED      0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK      0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK   0x3ff7

/* NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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

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

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

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

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

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

ROOTDIR ?= ../..

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

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

X86EMU_OBJC= 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_OBJC)
    $(AR) -rc $@ $^ 
    $(RANLIB) $@

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

distclean: clean
    # *****************************************************************************
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#!/bin/bash

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

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

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

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

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

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

echo "Copying files..."

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

echo "Removing checkedout subversion director..."
rm -rf x86emu
echo "Patching files..."

SPATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

Index: debug.c
RCSc 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()) {
-S        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
}
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printf("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
    sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
    printf("%-20s",buf1);
+    printf("%-20s " ,buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
RCSc file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+
case 0xc8:
+
DECODE_PRINTF("EAX\n");
+
M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+
break;
+
case 0xc9:
+
DECODE_PRINTF("ECX\n");
+
M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+
break;
+
case 0xca:
+
DECODE_PRINTF("EDX\n");
+
M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+
break;
+
case 0xcb:
+
DECODE_PRINTF("EBX\n");
+
M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+
break;
+
case 0xcc:

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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,
/* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/* 0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c7 Sep 2007 10:01:21 -00001.1
+++ ops.c20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
    target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
      M.x86.R_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R_CX;
-      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+        M.x86.R_CX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
+        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
      store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
      M.x86.R_SI += inc;
      M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
@@ -2574,6 +2586,8 @@
} M.x86.R_SI += inc;
M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
} DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
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);
-      M.x86.R_CX -= 1;
+      if (M.x86.mode & SYSMODE_32BIT_REP)
+          M.x86.R_ECX -= 1;
+      else
+          M.x86.R_CX -= 1;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+    if (M.x86.intr & INTR_HALTED)
+        break;
  }
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {

@@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            } else {

@@ -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);
            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 {


M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* move them until CX is ZERO. */
        count = M.x86.R_CX;
        /* move them until (E)CX is ZERO. */
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
    }
    while (count--) {
        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();
}
M.x86.R_DX += inc;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* move them until CX is ZERO. */
        while (M.x86.R_CX != 0) {
            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);
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. */
        /* 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. */
        /* 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;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    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 {
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        while (M.x86.R_CX != 0) {
            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 */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
            }
            else
                M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        while (M.x86.R_CX != 0) {
            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 */
        while (M.x86.R_CX != 0) {
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        while (M.x86.R_CX != 0) {
            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 */
        while (M.x86.R_CX != 0) {
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    }
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_CX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
        val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word(M.x86.R_AX, (u16)val);
    }
    M.x86.R_CX -= 1;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX -= 1;
    else
        M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break; /* zero flag set means equal */
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {

    DECODE_PRINTF("RET\n");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
    -RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    +RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    @ @ -3254,9 +3316,9 @ @

    {
        START_OF_INSTR();
        DECODE_PRINTF("RETF\n");
        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();
        +RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
        DECODE_CLEAR_SEGOVR();
        END_OF_INSTR();
    }
    @ @ -3471,10 +3533,10 @ @
    DECODE_PRINTF("RETF\n");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
    -RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
        !ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
        ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();

Open Source Used In FXOS Security Module 2.7(1) and Cisco ASA Series 9.13(1)
2336
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
 DECODE_PRINTF2("%04x\n", ip);
 TRACE_AND_STEP();
 - M.x86.R_CX -= 1;
 - if (M.x86.R_CX != 0)
 + if (M.x86.mode & SYSMODE_PREFIX_ADDR)
 +     M.x86.R_ECX -= 1;
 + else
 +     M.x86.R_CX -= 1;
 + if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
 M.x86.R_IP = ip;
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
 DECODE_PRINTF2("%x\n", target);
 TRACE_AND_STEP();
 - if (M.x86.R_CX == 0)
 + if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+     JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
 + }
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
 DECODE_PRINTF2("%04x\n", ip);
 + JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
 TRACE_AND_STEP();
 M.x86.R_IP = (u16)ip;
 DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
 DECODE_PRINTF2("%04x:", cs);
 DECODE_PRINTF2("%04x\n", ip);
 + JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
 TRACE_AND_STEP();
 M.x86.R_IP = ip;
 M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
 DECODE_PRINTF2("%x\n", target);
 + JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
trace_and_step();
M.x86.R_IP = target;
decode_clear_segovr();
@@ -4357,6 +4433,8 @@
decode_printf("repne\n");
trace_and_step();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.mode |= SYSMODE_32BIT_REP;
decode_clear_segovr();
end_of_instr();
}
@@ -4371,6 +4449,8 @@
decode_printf("repe\n");
trace_and_step();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.mode |= SYSMODE_32BIT_REP;
decode_clear_segovr();
end_of_instr();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+       jmp_trace(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
trace_and_step();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+       jmp_trace(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
trace_and_step();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000.
@@ -1921,7 +1921,7 @@
 exponential_multiply(u32 *res_lo, u32 *res_hi, u32 d, u32 s)
 { #ifdef __HAS_LONG_LONG__
- s64 res = (s64)d * (s64)s;
+ s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
    @ @ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
    #ifdef __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;
    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
    @ @ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* in until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* in until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
-        while (count--) {
+        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);
    @ @ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* out until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* out until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+return 0;
}

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

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

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

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

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

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

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

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

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

Open Source Used In FXOS Security Module 2.7(1) and Cisco ASA Series 9.13(1)
-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
#define DEBUG_SYSINT() (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL() (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+#define DEBUG_TRACEJMP() (M.x86.debug & DEBUG_TRACEJMP_F)
+#define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS() (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE() (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE() (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
#define DEBUG_SYSINT() 0
#define DEBUG_TRACECALL() 0
#define DEBUG_TRACECALLREGS() 0
+#define DEBUG_TRACEJMP() 0
+#define DEBUG_TRACEJMPREGS() 0
#define DEBUG_SYS() 0
#define DEBUG_MEM_TRACE() 0
#define DEBUG_IO_TRACE() 0
@@ -169,14 +171,20 @@
x86emu_dump_regs();                             
    if (DEBUG_TRACECALL())                         
    printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
-# define RETURN_TRACE(n,u,v)                    
+# define RETURN_TRACE(u,v,w,x,s)                
    if (DEBUG_TRACECALLREGS())									
    x86emu_dump_regs();                             
    if (DEBUG_TRACECALL())                         
-    printk("%04x:%04x: %s
",u,v,n);           
+    printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);   
+    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

#ififdef DEBUG
Index: include/x86emu/regs.h
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h Sep 2007 10:01:21 -00001.1
+++ include/x86emu/regs.h1 Jan 2008 13:46:40 -00001.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA  0x00000200
#define SYSMODE_PREFIX_ADDR  0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP   0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR   0x20000000
#define SYSMODE_HALTED       0x40000000
@@ -250,7 +253,8 @@
 SYSMODE_SEGOVR_GS      | \
 SYSMODE_SEGOVR_SS      | \
 SYSMODE_PREFIX_ADDR    | \
- SYSMODE_PREFIX_ADDR   | \
- SYSMODE_32BIT_REP    | \
+ SYSMODE_PREFIX_ADDR   | \
+ SYSMODE_32BIT_REP    | \
#define INTR_SYNCH         0x1
#define INTR_ASYNCH        0x2
@@ -274,9 +278,9 @@
/*
    u32 mode;
    volatile int intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#endif DEBUG
-int check;
+ int check;
    u16 saved_ip;
    u16 saved_cs;
    int enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -00001.3
@@ -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_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@}
#endif /* __X86EMU_X86EMU_H */
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That's all there is to it!
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```
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```

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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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THE BASIC LIBRARY FUNCTIONS

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Joel Becker <jilbec with raleigh.ibm.com> AIX
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Kai Siering <kai.siering with mediaways.net>
Kevin Brintnall <kbrint with rufus.net> bugfixes in and additions to rrdcached, including journaling support
Larry Leszcynski <larryl with furph.com>
Mark Plaksin <happy@usg.edu> rrd_graph_v
Matt Chambers <matthew.chambers with vanderbilt.edu> --full-size-mode for rrdgraph
Melchior Rabe <rrdtool at mrab.de> -- legend position patch
McCready mcreery with xoanon.colorado.edu
Mike Mitchell <mcm with unix.sas.com>
Mike Slifcak <slif with bellsouth.net> many rrdtool-1.1.x fixes
Oleg Cherevko <olwi with icyb.kiev.ua>
Otmar Lendl <O.Lendl with Austria.EU.net> (lots of bugfixes)
Pablo Sanchez <pablo at blueoakdb.com> (CDEF vs VDEF)
Patrick Cherry <patrick with bytemark.co.uk>
Paul Joslin <Paul.Joslin with sdrc.com>
Peter Speck <speck with vitality.dk> eps/svg/pdf file format code in rrdtool-1.x
Peter Stämfest <peter with stamfest.at> initial multi-thread support
Peter Breitenholner <peb with mppmu.mpg.de> many patches for rrdtool 1.2.x
Philippe.Simonet <Philippe.Simonet with swisscom.com> (NT porting)
Poul-Henning Kamp <phk with freebsd.org> CDEF enhancements
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Steen Linden <Steen.Linden with ebone.net>
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Stefan Ludewig <Stefan.Ludewig at exitgames.com> 1.3 WIN32 Port
Stefan Mueller <s.mueller with computer.org> HPUX 11
Steve Harris <steveh with wesley.com.au> AIX portability
Steve Rader <rader with teak.wiscnet.net> (rrd_cgi debugging and LAST)
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Tom Crawley <Tom.Crawley with hi.riotinto.com.au> (GCC&HP configuration)
Travis Brown <tebrown with csh.rit.edu>
Tuc <ttsg with ttsg.com>
Ulf Lilleengen <ulf with pvv.ntnu.no> Python binding for 'rrdtool first'
Ulrich Schilling <schilling with netz.uni-essen.de> AIX
Wim Heirman <wim.heirman elis.ugent.be> --units=si option
Wolfgang Schirim <wschrimm with uni-hd.de> xport function
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1.162 rsync 3.1.1

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1.163 run-postinsts 1.0

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1.164 screen 4.3.1 :r0

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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
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Bowes, Keith
Boyce, Keith Garry
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Klyachkin, Andrey
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Petten, Diego Elio
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Plotnick, Alex
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The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
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FAQ:
=====

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

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

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

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

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

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A: No, everyone including BalaBit.

This is syslog-ng, written and maintained by <bazsi@balabit.hu> on Sat, 03 Mar 2007 16:07:59 +0100

The original source can always be found at:
http://www.balabit.hu/downloads/files/syslog-ng

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

/* Bison implementation for Yacc-like parsers in C


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/* As a special exception, you may create a larger work that contains part or all of the Bison parser skeleton and distribute that work under terms of your choice, so long as that work isn’t itself a parser generator using the skeleton or a modified version thereof as a parser skeleton. Alternatively, if you modify or redistribute the parser skeleton itself, you may (at your option) remove this special exception, which will cause the skeleton and the resulting Bison output files to be licensed under the GNU General Public License without this special exception. 

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/* C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser. */
/* All symbols defined below should begin with yy or YY, to avoid infringing on user name space. This should be done even for local variables, as they might otherwise be expanded by user macros. There are some unavoidable exceptions within include files to define necessary library symbols; they are noted "INFRINGES ON USER NAME SPACE" below. */

/* Identify Bison output. */
define YYBISON 1

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

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

/* Pure parsers. */
define YYPURE 1

/* Push parsers. */
define YYPUSH 0

/* Pull parsers. */
define YYPULL 1

/* Substitute the variable and function names. */
define yyparse rewrite_expr_parse
define yylex rewrite_expr_lex
define 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

/* Enabling verbose error messages. */
define 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
#endif
#if YYDEBUG
extern int rewrite_expr_debug;
#endif
/* "%code requires" blocks. */
#line 25 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:355 */
#include "rewrite/rewrite-expr-parser.h"

#line 109 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:355 */

/* Token type. */
#ifndef YYTOKENTYPE
# define YYTOKENTYPE
#endif
#define enum yytoken type
{
  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,
KW_IFDEF = 10410,
KW_ENDIF = 10411,
LL_DOTDOT = 10420,
LL_IDENTIFIER = 10421,
LL_NUMBER = 10422,
LL_FLOAT = 10423,
LL_STRING = 10424,
LL_TOKEN = 10425,
LL_BLOCK = 10426,
LL_PRAGMA = 10427,
LL_EOL = 10428,
LL_ERROR = 10429,
KW_VALUE_PAIRS = 10500,
KW_SELECT = 10501,
KW_EXCLUDE = 10502,
KW_PAIR = 10503,
KW_KEY = 10504,
KW_SCOPE = 10505,
KW_SHIFT = 10506,
KW_REKEY = 10507,
KW_ADD_PREFIX = 10508,
KW_REPLACE_PREFIX = 10509,
KW_ON_ERROR = 10510,
KW_RETRIES = 10511,
KW_CONDITION = 10513,
KW_SET_TAG = 10514,
KW_CLEAR_TAG = 10515,
KW_GROUP_SET = 10516
};
#endif

/* Tokens. */
#define LL_CONTEXT_ROOT 1
#define LL_CONTEXT_DESTINATION 2
#define LL_CONTEXT_SOURCE 3
#define LL_CONTEXT_PARSER 4
#define LL_CONTEXT_REWRITE 5
#define LL_CONTEXT_FILTER 6
#define LL_CONTEXT_LOG 7
#define LL_CONTEXT_BLOCK_DEF 8
#define LL_CONTEXT_BLOCK_REF 9
#define LL_CONTEXT_BLOCK_CONTENT 10
#define LL_CONTEXT_BLOCK_ARG 11
#define LL_CONTEXTPragma 12
#define LL_CONTEXT_FORMAT 13
#define LL_CONTEXT_TEMPLATE_FUNC 14
#define LL_CONTEXT_INNER_DEST 15
#define LL_CONTEXT_INNER_SRC 16
#define LL_CONTEXT_CLIENT_PROTO 17
#define LL_CONTEXT_SERVER_PROTO 18
#define KW_SOURCE 10000
#define KW_FILTER 10001
#define KW_PARSER 10002
#define KW_DESTINATION 10003
#define KW_LOG 10004
#define KW_OPTIONS 10005
#define KW_INCLUDE 10006
#define KW_BLOCK 10007
#define KW_JUNCTION 10008
#define KW_CHANNEL 10009
#define KW_INTERNAL 10010
#define KW_FILE 10011
#define KW_SQL 10030
#define KW_TYPE 10031
#define KW_COLUMNS 10032
#define KW_INDEXES 10033
#define KW_VALUES 10034
#define KW_PASSWORD 10035
#define KW_DATABASE 10036
#define KW_USERNAME 10037
#define KW_TABLE 10038
#define KW_ENCODING 10039
#define KW_SESSION_STATEMENTS 10040
#define KW_DELIMITERS 10050
#define KW_QUOTES 10051
#define KW_QUOTE_PAIRS 10052
#define KW_NULL 10053
#define KW_SYSLOG 10060
#define KW_MARK_FREQ 10071
#define KW_STATS_FREQ 10072
#define KW_STATS_LEVEL 10073
#define KW_STATS_LIFETIME 10074
#define KW_FLUSH_LINES 10075
#define KW_SUPPRESS 10076
#define KW_FLUSH_TIMEOUT 10077
#define KW_LOG_MSG_SIZE 10078
#define KW_FILE_TEMPLATE 10079
#define KW_PROTO_TEMPLATE 10080
#define KW_MARK_MODE 10081
#define KW_CHAIN_HOSTNAMES 10090
#define KW_NORMALIZE_HOSTNAMES 10091
#define KW_KEEP_HOSTNAME 10092
#define KW_CHECK_HOSTNAME 10093
#define KW_BAD_HOSTNAME 10094
#define KW_KEEP_TIMESTAMP 10100
#define KW_USE_DNS 10110
#define KW_USE_FQDN 10111
#define KW_CUSTOM_DOMAIN 10112
#define KW_DNS_CACHE 10120
#define KW_DNS_CACHE_SIZE 10121
#define KW_DNS_CACHE_EXPIRE 10130
#define KW_DNS_CACHE_EXPIRE_FAILED 10131
#define KW_DNS_CACHE_HOSTS 10132
#define KW_PERSIST_ONLY 10140
#define KW_USE_RCPID 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_THREADS 10171
#define KW_FLAGS 10190
#define KW_PAD_SIZE 10200
#define KW_TIME_ZONE 10201
#define KW_RECV_TIME_ZONE 10202
#define KW_SEND_TIME_ZONE 10203
#define KW_LOCAL_TIME_ZONE 10204
#define KW_FORMAT 10205
#define KW_TIME_REOPEN 10210
#define KW_TIME_REAP 10211
#define KW_TIME_SLEEP 10212
#define KW_TMPL_ESCAPE 10220
#define KW_OPTIONAL 10230
#define KW_CREATE_DIRS 10240
#define KW_OWNER 10250
#define KW_GROUP 10251
#define KW_PERM 10252
#define KW_DIR_OWNER 10260
#define KW_DIR_GROUP 10261
#define KW_DIR_PERM 10262
#define KW_TEMPLATE 10270
#define KW_TEMPLATE_ESCAPE 10271
#define KW_DEFAULT_FACILITY 10300
#define KW_DEFAULT_LEVEL 10301
#define KW_PORT 10323
#define KW_USE_TIME_RECVD 10340
#define KW_FACILITY 10350
#define KW_LEVEL 10351
#define KW_HOST 10352
#define KW_MATCH 10353
#define KW_MESSAGE 10354
#define KW_NETMASK 10355
#define KW_TAGS 10356
#define KW_VALUE 10361
#define KW_REWRITE 10370
#define KW_SET 10371
#define KW_SUBST 10372
#define KW_YES 10380
#define KW_NO 10381
#define KW_IFDEF 10410
#define KW_ENDIF 10411
#define LL_DOTDOT 10420
#define LL_IDENTIFIER 10421
#define LL_NUMBER 10422
#define LL_FLOAT 10423
#define LL_STRING 10424
#define LL_TOKEN 10425
#define LL_BLOCK 10426
#define LL_PRAGMA 10427
#define LL_EOL 10428
#define LL_ERROR 10429
#define KW_VALUE_PAIRS 10500
#define KW_SELECT 10501
#define KW_EXCLUDE 10502
#define KW_PAIR 10503
#define KW_KEY 10504
#define KW_SCOPE 10505
#define KW_SHIFT 10506
#define KW_REKEY 10507
#define KW_ADD_PREFIX 10508
#define KW_REPLACE_PREFIX 10509
#define KW_ON_ERROR 10510
#define KW_RETRIES 10511
#define KW_CONDITION 10513
#define KW_SET_TAG 10514
#define KW_CLEAR_TAG 10515
#define KW_GROUP_SET 10516

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

int rewrite_expr_parse (CfgLexer *lexer, LogExprNode **result, gpointer arg);
#endif /* !YY_REWRITE_EXPR_LIB_REWRITE_REWRITE_EXPR_GRAMMAR_H_INCLUDED */

/* Copy the second part of user declarations. */
#line 444 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:358 */
/* Unqualified %code blocks. */
#line 31 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:359 */

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

#include <string.h>

LogRewrite *last_rewrite;

#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) {
            gchar __buf[256];
            g_snprintf(__buf, sizeof(__buf), errorfmt, ## __VA_ARGS__);
            yyerror(& (token), lexer, NULL, NULL, __buf);
        }
        YYERROR;
    }
} while (0)

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

#define YYMAXDEPTH 20000

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

#ifdef short
# undef short
#endif

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

#ifdef YYTYPE_INT8
typedef YYTYPE_INT8 yytype_int8;
#else
typedef signed char yytype_int8;
#endif

#ifdef YYTYPE_UINT16
typedef YYTYPE_UINT16 yytype_uint16;
#else
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

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# endif
#endif

#define YYSIZE_MAXIMUM ((YYSIZE_T) -1)

#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)
# endif
#endif

#ifndef YY_
# define YY_(Msgid) Msgid
#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
#endif

#ifndef YY_ATTRIBUTE_PURE
# define YY_ATTRIBUTE_PURE YY_ATTRIBUTE ((__pure__))
#endif

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

#if !defined _Noreturn 
   
   && (!defined __STDC_VERSION__ || __STDC_VERSION__ < 201112)
# if defined _MSC_VER && 1200 <= _MSC_VER
# define _Noreturn __declspec (noreturn)
# else
# define _Noreturn YY_ATTRIBUTE ((__noreturn__))
#endif
#endif

/* Suppress unused-variable warnings by "using" E. */
#if !defined lint || defined __GNUC__
# define YYUSE(E) ((void) (E))
#else

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# 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\"")
#define YY_IGNORE_MAYBE_UNINITIALIZED_END \
        _Pragma ("GCC diagnostic pop")
#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. */
#endif

#define YYSTACK_ALLOC __builtin_alloca
#define YYSTACK_ALLOC __alloca
#define alloca _alloca
#endif
#include <stdlib.h> /* INFRINGES ON USER NAME SPACE */
#ifndef EXIT_SUCCESS
#define EXIT_SUCCESS 0
#endif
/* 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);                    
    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. */
#if !defined YYCOPY
  #if defined GNUC__ && 1 < __GNUC__
    #define YYCOPY(Dst, Src, Count) 
      __builtin_memcpy (Dst, Src, (Count) * sizeof (*Src))
  # else
    # define YYCOPY(Dst, Src, Count) 
      do
        
      while (0)
  #endif
#endif
*/
YYSIZE_T yyi;                        \
for (yyi = 0; yyi < (Count); yyi++)  \
    (Dst)[yyi] = (Src)[yyi];        \
}                                     \
while (0)
# endif
# endif
#endif /* !YYCOPY_NEEDED */

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

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

/* YYTRANSLATE[YYX] -- Symbol number corresponding to YYX as returned by yylex, with out-of-bounds checking. */
#define YYUNDEFTOK 2
#define YYMAXUTOK 10516

#define YYTRANSLATE(YYX)                                                             \
((unsigned int) (YYX) <= YYMAXUTOK ? yytranslate[YYX] : YYUNDEFTOK)

/* YYTRANSLATE[TOKEN-NUM] -- Symbol number corresponding to TOKEN-NUM as returned by yylex, without out-of-bounds checking. */
static const 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,
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  153, 154, 2,  2,  2,  2,  2,  2,  2,  2,
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/* YYTNAME[SYMBOL-NUM] -- String name of the symbol SYMBOL-NUM.
   First, the terminals, then, starting at YYNTOKENS, nonterminals. */
static const char *const yytname[] =
{
"$end", "error", "$undefined", "LL_CONTEXT_ROOT",
"LL_CONTEXT_DESTINATION", "LL_CONTEXT_SOURCE", "LL_CONTEXT_PARSER",
"LL_CONTEXT_REWRITE", "LL_CONTEXT_FILTER", "LL_CONTEXT_LOG",
"LL_CONTEXT_BLOCK_DEF", "LL_CONTEXT_BLOCK_REF",
"LL_CONTEXT_BLOCK_CONTENT", "LL_CONTEXT_BLOCK_ARG", "LL_CONTEXT_PRAGMA",
"LL_CONTEXT_FORMAT", "LL_CONTEXT_TEMPLATE_FUNC", "LL_CONTEXT.Inner_DEST", 
"LL_CONTEXT.Inner_SRC", "LL_CONTEXT_CLIENT_PROTO",
"LL_CONTEXT_SERVER_PROTO", "KW_SOURCE", "KW_FILTER", "KW_PARSER",
"KW_DESTINATION", "KW_LOG", "KW_OPTIONS", "KW_INCLUDE", "KW_BLOCK",
"KW_JUNCTION", "KW_CHANNEL", "KW_INTERNAL", "KW_FILE", "KW_SQL",
"KW_TYPE", "KW_COLUMNS", "KW_INDEXES", "KW_VALUES", "KW_PASSWORD",
"KW_DATABASE", "KW_USERNAME", "KW_TABLE", "KW_ENCODING",
"KW_SESSION_STATEMENTS", "KW_DELIMITERS", "KW_QUOTES", "KWQUOTE_PAIRS",
"KW_NULL", "KW_SYSLOG", "KW_MARK_FREQ", "KW_STATS_FREQ",
"KW_STATS_LEVEL", "KW_STATS_LIFETIME", "KW_FLUSH_LINES", "KW_SUPPRESS",
"KW_FLUSH_TIMEOUT", "KW_LOG_MSG_SIZE", "KW_FILE_TEMPLATE",
"KW_PROTO_TEMPLATE", "KW_MARK_MODE", "KW_CHAIN_HOSTNAMES",
"KW.Normalize_HOSTNAMES", "KW_KEEP_HOSTNAME", "KW_CHECK_HOSTNAME",
"KW_BAD_HOSTNAME", "KW_KEEP_TIMESTAMP", "KW_USE_DNS", "KW_USE_FQDN",
"KW_CUSTOM_DOMAIN", "KW_DNS_CACHE", "KW_DNS_CACHE_SIZE",
"KW_DNS_CACHE_EXPIRE", "KW_DNS_CACHE_EXPIRE_FAILED",
"KW_DNS_CACHE_HOSTS", "KW_PERSIST_ONLY", "KW_USE_RCPTID",
"KW_TZ_CONVERT", "KW_TS_FORMAT", "KW_FRAC_DIGITS", "KW_LOG_FIFO_SIZE",
"KW_LOG_FETCH_LIMIT", "KW_LOG_IW_SIZE", "KW_LOG.Preference",
"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_REALP", "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.FACILITY", "KW_DEFAULT_LEVEL", "KW_PORT",
"KW_USE_TIME_RECVD", "KW_FACILITY", "KW_LEVEL", "KW_HOST", "KW_MATCH",
"KW_MESSAGE", "KW_NETMASK", "KW_TAGS", "KW_VALUE", "KW_REWRITE",
"KW_SET", "KW_SUBST", "KW_yes", "KW_NO", "KWIFDEF", "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_SET", "KW_SELECT", "KW_EXCLUDE", "KW_PAIR", "KW_KEY",
"KW_SCOPE", "KW_SHIFT", "KW_REMOTE", "KW_ADD_PREFIX", "KW_REPLACE_PREFIX",
"KW_ON_ERROR", "KW_RETRIES", "KW_CONDITION", "KW_SUBTAG"
"KW_CLEAR_TAG", "KW_GROUP_SET", "("", ")", "["", "]", ",", ":", 
"Saccept", "start", "rewrite_expr_list", "rewrite_template_content",
"rewrite_expr", "$@1", "$@2", "$@3", "rewrite_groupset_opts",
"rewrite_groupset_opt", "rewrite_subst_opts", "rewrite_subst_opt", "$@4",
"rewrite_expr_opts", "rewrite_expr_opt", "rewrite_condition_opt", "$@5",
"source_content", "$@6", "$@7", "source_items", "source_item",
"source_plugin", "source_afinter", "source_afinter_params", "$@8",
"source_afinter_options", "source_afinter_option", "filter_content",
"parser_content", "rewrite_content", "dest_content", "$@9", "$@10",
"dest_items", "dest_item", "dest_plugin", "log_items", "log_item",
"log_junction", "log_last_junction", "log_forks", "log_fork",
"log_content", "log_flags", "log_flags_items", "string", "yesno",
"dnsmode", "string_list", "string_list_build", "semicolons",
"source_option", "$@12", "host_resolve_option", "matcher_option",
"matcher_flags", YY_NULLPTR
};
#endif

#ifdef YYPRINT
/* YYTOKNUM[NUM] -- (External) token number corresponding to the
(internal) symbol number NUM (which must be that of a token). */
static const yytype_uint16 yytoknum[] =
{
  0, 256, 10512, 1, 2, 3, 4, 5, 6, 7,
  8, 9, 10, 11, 12, 13, 14, 15, 16, 17,
  18, 10000, 10001, 10002, 10003, 10004, 10005, 10006, 10007, 10008,
  10009, 10010, 10011, 10030, 10031, 10032, 10033, 10034, 10035, 10036,
  10037, 10038, 10039, 10040, 10050, 10051, 10052, 10053, 10060, 10071,
  10072, 10073, 10074, 10075, 10076, 10077, 10078, 10079, 10080, 10081,
  10090, 10091, 10092, 10093, 10094, 10100, 10110, 10111, 10112, 10120,
  10121, 10130, 10131, 10132, 10140, 10141, 10150, 10151, 10152, 10160,
  10162, 10163, 10164, 10165, 10166, 10170, 10171, 10190, 10200, 10201,
  10202, 10203, 10204, 10205, 10210, 10211, 10212, 10220, 10230, 10240,
  10250, 10251, 10252, 10260, 10261, 10262, 10270, 10271, 10300, 10301,
  10323, 10340, 10350, 10351, 10352, 10353, 10354, 10355, 10356, 10361,
  10370, 10371, 10372, 10380, 10381, 10410, 10411, 10420, 10421, 10422,
  10423, 10424, 10425, 10426, 10427, 10428, 10429, 10500, 10501, 10502,
  10503, 10504, 10505, 10506, 10507, 10508, 10509, 10510, 10511, 10513,
  10514, 10515, 10516, 40, 41, 123, 125, 59, 58
};
#endif

#define YYPACT_NINF -106

#define yypact_value_is_default(Yystate) \
((!!((Yystate) == (-106)))

#define YYTABLE_NINF -45
#define yytable_value_is_error(Yytable_value) \ 0

/* YYPACT[STATE-NUM] -- Index in YYTABLE of the portion describing STATE-NUM. */
static const yytype_int8 yypact[] =
{
  -15, -87, -73, -65, -106, -59, -58, -57, 97, 17,
  -54, -54, 17, -75, -75, -75, -75, -106, -55,
  -106, -106, -75, -49, -44, -106, -6, -6, 17, -106,
  -106, -106, -106, -97, -106, -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, -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, -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, -106, 42, -106, -106, 43, 44, 45, -106, -106,
  -106, -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, 0, 15, 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, 0,
24, 90, 14, 16, 0, 0, 36, 0, 0, 0,
0, 0, 0, 54, 0, 0, 0, 76, 57, 0,
0, 8, 20, 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, 34, 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, 0, 90, 43, 0, 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[NTERM-NUM]. */
static const yytype_int8 yypgoto[] =
{
  -106, -106, 49, 16, -106, -106, -106, -106, 61, -106,
  51, -106, -106, 78, -28, -13, -106, -106, -106,
  106, 20, -72, 113, -106, 14, -14, -94, -106, -23,
  50, -4, -106, -106, -106, -106, 47
};

/* YYDEFGOTO[NTERM-NUM]. */
static const yytype_int16 yydefgoto[] =
{
  -1, 8, 9, 30, 10, 64, 43, 47, 66, 67,
  87, 88, 89, 61, 62, 63, 110, 95, 96, 149,
  123, 124, 125, 126, 160, 161, 180, 181, 98, 100,
  105, 102, 103, 152, 135, 136, 137, 53, 54, 11,
  21, 22, 23, 56, 107, 155, 31, 202, 225, 117,
  118, 25, 182, 183, 198, 115, 159
};

/* YYTABLE[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 ytable[] =
{
  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,
static const yytype_int16 yycheck[] =
{
};

/* YYSTOS[STATE-NUM] -- The (internal number of the) accessing symbol of state STATE-NUM. */
static const yytype_uint8 yystos[] =
{
}
/* YYR1[YYN] -- Symbol number of symbol that rule YYN derives. */
static const yytype_uint8 yyr1[] =
{
  0, 159, 160, 161, 161, 161, 162, 164, 163, 165,
  163, 163, 166, 163, 163, 167, 167, 168, 168,
  169, 171, 170, 170, 172, 172, 173, 173, 175,
  174, 177, 178, 176, 179, 179, 179, 180, 180, 181,
  182, 184, 183, 185, 185, 186, 187, 188, 189, 191,
  192, 193, 193, 193, 194, 195, 196, 196, 197,
  197, 197, 197, 197, 197, 197, 197, 197, 197, 197,
  198, 199, 200, 200, 201, 201, 202, 203, 203, 204,
  204, 205, 205, 206, 206, 206, 207, 207, 208, 209,
  209, 210, 210, 211, 211, 211, 211, 211, 211, 211,
  211, 212, 211, 213, 213, 213, 214, 214, 214, 215,
  215
};

/* YYR2[YYN] -- Number of symbols on the right hand side of rule YYN. */
static const yytype_uint8 yyr2[] =
{
  0, 2, 2, 3, 0, 1, 0, 7, 0,
  6, 4, 4, 0, 6, 1, 2, 0, 4, 1,
If N is 0, then set CURRENT to the empty location which ends
the previous symbol: RHS[0] (always defined). */

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

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

/* Enable debugging if requested. */
#if YYDEBUG
#endif

#ifdef 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
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#endif
#endif

/* YY_LOCATION_PRINT */
#if defined YYLTYPE_IS_TRIVIAL && YYLTYPE_IS_TRIVIAL
#endif
/* 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 += YYPRINTF (yyo, "%d", yylocp->first_line);
      if (0 <= yylocp->first_column)
        res += YYPRINTF (yyo, ".%d", yylocp->first_column);
    }
  if (0 <= yylocp->last_line)
    {
      if (yylocp->first_line < yylocp->last_line)
        {
          res += YYPRINTF (yyo, "-%d", yylocp->last_line);
          if (0 <= end_col)
            res += YYPRINTF (yyo, ".%d", end_col);
        }
      else if (0 <= end_col && yylocp->first_column < end_col)
        res += YYPRINTF (yyo, "-%d", end_col);
    }
  return res;
}

#define YY_LOCATION_PRINT(File, Loc)          \
  yy_location_print_ (File, &(Loc))
#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)
{
YYFPRINTF (yyoutput, "%s %s (",
yytype < YYNTOKENS ? "token" : "nterm", yytname[yytype]);
YY_LOCATION_PRINT (yyoutput, *yylocationp);
YYFPRINTF (yyoutput, ": ");
yy_symbol_value_print (yyoutput, yytype, yyvaluep, yylocationp, lexer, result, arg);
YYFPRINTF (yyoutput, ")");
}
/*------------------------------------------------------------------.
| yy_stack_print -- Print the state stack from its BOTTOM up to its |
| TOP (included).
|
'------------------------------------------------------------------*/
static void

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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, yynsp, int yyrule, CfgLexer *lexer, LogExprNode **result, gpointer 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 YYERROR_VERBOSE
#ifndef yystrlen
#if defined __GLIBC__ && defined _STRING_H
#define yystrlen strlen
#else
/* Return the length of YYSTR. */
static YYSIZE_T
yystrlen (const char *yystr)
{
  YYSIZE_T yylen;
  for (yylen = 0; yystr[yylen]; yylen++)
    continue;
  return yylen;
}
#else
#endif
#endif
#endif

#if defined yystrlen
#if defined __GLIBC__ && defined _STRING_H
#define yystrlen strlen
#else
#endif
#endif

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

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

    return yyd - 1;
}
#endif
#endif

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

```c
if (yytoken != YYEMPTY)
{
  int yyn = yypact[*yyssp];
  yyarg[yycount++] = yytname[yytoken];
  if (!yypact_value_is_default (yyn))
  {
    /* Start YYX at -YYN if negative to avoid negative indexes in YYCHECK. In other words, skip the first -YYN actions for this state because they are default actions. */
    int yyxbegin = yyn < 0 ? -yyn : 0;
    /* Stay within bounds of both yycheck and yytname. */
    int yychecklim = YYLAST - yyn + 1;
    int yyxend = yychecklim < YYNTOKENS ? yychecklim : YYNTOKENS;
    int yyx;
    for (yyx = yyxbegin; yyx < yyxend; ++yyx)
      if (yycheck[yyx + yyn] == yyx && yyx != YYTERROR
          && !yytable_value_is_error (yytable[yyx + yyn]))
      {
        if (yycount == YYERROR_VERBOSE_ARGS_MAXIMUM)
          {
            yycount = 1;
            yysize = yysize0;
            break;
          }
        yyarg[yycount++] = yytname[yyx];
        {
          YYSIZE_T yysize1 = yysize + yytnamerr (YY_NULLPTR, yytname[yyx]);
          if (! (yysize <= yysize1
                && yysize1 <= YYSTACK_ALLOC_MAXIMUM))
            return 2;
        }
      }
}
```
```c
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 + yystrlen(yyformat);
    if (! (yysize <= yysize1 && yysize1 <= YYSTACK_ALLOC_MAXIMUM))
        return 2;
    yysize = yysize1;
}

if (*yymsg_alloc < yysize)
{
    *yymsg_alloc = 2 * yysize;
    if (! (yysize <= *yymsg_alloc
             && *yymsg_alloc <= YYSTACK_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 */

/*----------.
| yyparse.   |
'----------*/

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

/* The semantic value of the lookahead symbol. */

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

YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
YYUSE (yytype);
YY_IGNORE_MAYBE_UNINITIALIZED_END
}
/* Default value used for initialization, for pacifying older GCCs or non-GCC compilers. */
YY_INITIALIZER (static YYSTYPE yyval_default;
YYSTYPE yylval YY_INITIALIZER (= 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 yynmsgbuf[128];
char *yymsg = yynmsgbuf;
YYSIZE_T yynmsg_alloc = sizeof yynmsgbuf;
#endif

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

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

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

yystate = 0;
yyerrstatus = 0;
yynerrs = 0;
yychar = YYEMPTY; /* Cause a token to be read. */
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. */
yyvalsp++;

yysetstate:
*yyvalsp = yystate;

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

#ifdef yyoverflow
{
    /* Give user a chance to reallocate the stack. Use copies of
        these so that the &'s don't force the real ones into
        memory. */
    YYSTYPE *yyvs1 = yyvs;
    yytype_int16 *yyss1 = yyss;
    YYLTYPE *yyls1 = yyls;

    /* Each stack pointer address is followed by the size of the
    data in use in that stack, in bytes. This used to be a
    conditional around just the two extra args, but that might
    be undefined if yyoverflow is a macro. */
    yyoverflow (YY_("memory exhausted"),
                &yyss1, yysize * sizeof (*yyssp),
                &yyvs1, yysize * sizeof (*yyvsp),
                &yyls1, yysize * sizeof (*yylsp),
                &yystacksize);

    yyls = yyls1;
    yyss = yyss1;
    yyvs = yyvs1;
}
#else /* no yyoverflow */
#else /* YYSTACK_RELOCATE */
    goto yyexhaustedlab;
#endif
#endif /* no YYSTYPE_RELOCATE */

/* Extend the stack our own way. */
if (YYMAXDEPTH <= yystacksize)
  goto yyexhaustedlab;
if (YYMAXDEPTH < yystacksize)
  yystacksize *= 2;

yytype_int16 *yyss1 = yyss;
union yyalloc *yyptr =
    (union yyalloc *) YYSTACK_ALLOC (YYSTACK_BYTES (yystacksize));
if (! yyptr)
  goto yyexhaustedlab;
YYSTACK_RELOCATE (yyss_alloc, yyss);
YYSTACK_RELOCATE (yyvs_alloc, yyvs);
YYSTACK_RELOCATE (yyls_alloc, yyls);
#undef YYSTACK_RELOCATE
if (yyss1 != yyssa)
    YYSTACK_FREE (yyss1);
}
#endif
#endif /* no yyoverflow */

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

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

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

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

if (yystate == YYFINAL)
    YYACCEPT;
go to 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 = ytoken = YYEOF;
YYDPRINTF ((stderr, "Now at end of input\n"));
}
else
{
  ytoken = YYTRANSLATE (yychar);
  YY_SYMBOL_PRINT ("Next token is", ytoken, &yylval, &yylloc);
}

/* If the proper action on seeing token YYTOKEN is to reduce or to 
detect an error, take that action. */
yyn += ytoken;
if (yyn < 0 || YYLAST < yyn || yycheck[yyn] != ytoken)
  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", ytoken, &yylval, &yylloc);

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

ystate = yyn;
YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
  *++yyvsp = yylval;
YY_IGNORE_MAYBE_UNINITIALIZED_END
  *++yylsp = yylloc;
goto yynnewstate;

/*---------------------------------------------*/
| yydefault -- do the default action for the current state. |
|---------------------------------------------*/
yydefault:
  yyn = yydefact[ystate];
  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) {
        cfg_lexer_unput_token(lexer, &yylval);
        YYACCEPT;
      }
    }
    #line 2942 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

  case 3:
    #line 391 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    { (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-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), (yyval.ptr));
    }
    #line 2954 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

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

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

(yyval.ptr) = log_template_new(configuration, (yyvsp[0].cptr));
CHECK_ERROR_GERROR(log_template_compile((yyval.ptr), (yyvsp[0].cptr), &error), (yylsp[0]), error, "error
compiling replacement");
free((yyvsp[0].cptr));
}
#line 2972 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

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

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

case 9:
#line 421 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{
last_rewrite = log_rewrite_set_new((yyvsp[0].ptr), configuration);
log_template_unref((yyvsp[0].ptr));
}
#line 3001 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 10:
case 11:
   { (yyval.ptr) = log_rewrite_set_tag_new((yyvsp[-1].cptr), TRUE, configuration); free((yyvsp[-1].cptr)); }
   break;

case 12:
   { (yyval.ptr) = log_rewrite_set_tag_new((yyvsp[-1].cptr), FALSE, configuration); free((yyvsp[-1].cptr)); }
   break;

case 13:
   { last_rewrite = log_rewrite_groupset_new((yyvsp[0].ptr), configuration);
     log_template_unref((yyvsp[0].ptr));
   }
   break;

case 14:
   { (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;
}
#line 3054 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

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

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

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

case 29:
#line 502 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{    FilterExprNode *filter_expr;
CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&filter_expr_parser, lexer, (gpointer *)&filter_expr, NULL), (yylsp[-1]));
    FilterExprNode *filter_expr;
CHECK_ERROR_WITHOUT_MESSAGE(cfg_parser_parse(&filter_expr_parser, lexer, (gpointer *)&filter_expr, NULL), (yylsp[-1]));
log_rewrite_set_condition(last_rewrite, filter_expr);
}
#line 3098 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

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

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

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

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

case 35:
#line 524 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    {
        (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr));
    }
#line 3130 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 36:
#line 525 "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:
#line 529 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    {
        (yyval.ptr) = (yyvsp[0].ptr);
    }
#line 3142 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 38:
#line 530 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{ (yyval.ptr) = (yyvsp[0].ptr); }
#line 3148 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

case 39:
#line 535 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
{ Plugin *p;
  gint context = LLCONTEXT_SOURCE;

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

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

case 49:
    #line 605 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    {
        cfg_lexer_push_context(lexer, LL_CONTEXT_DESTINATION, NULL, "destination");
    }
    #line 3229 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
    break;

case 50:
    #line 607 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
    {
        cfg_lexer_pop_context(lexer);
    }
case 51:
    (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc));
    break;

case 52:
    (yyval.ptr) = log_expr_node_append_tail(log_expr_node_new_pipe((yyvsp[-2].ptr), &(yylsp[-2])), (yyvsp[0].ptr));
    break;

case 53:
    (yyval.ptr) = log_expr_node_append_tail((yyvsp[-2].ptr),  (yyvsp[0].ptr));
    break;

case 54:
    (yyval.ptr) = NULL;
    break;

case 55:
    (yyval.ptr) = (yyvsp[0].ptr);
    break;

case 56:
    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)); }
case 64:
  { (yyval.ptr) = log_expr_node_new_parser(NULL, (yyvsp[-1].ptr), &(yyloc)); }

case 65:
  { (yyval.ptr) = log_expr_node_new_rewrite_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }

case 66:
  { (yyval.ptr) = log_expr_node_new_rewrite(NULL, (yyvsp[-1].ptr), &(yyloc)); }

case 67:
  { (yyval.ptr) = (yyvsp[0].ptr) ? log_expr_node_new_junction((yyvsp[0].ptr), &(yylsp[0])) : NULL; }

case 68:
  { (yyval.ptr) = log_expr_node_new_destination_reference((yyvsp[-1].cptr), &(yyloc)); free((yyvsp[-1].cptr)); }

case 69:
  { (yyval.ptr) = (yyvsp[0].ptr); }

case 70:
  { (yyval.ptr) = log_expr_node_new_junction((yyvsp[-1].ptr), &(yyloc)); }

case 71:
  { (yyval.ptr) = (yyvsp[0].ptr) ? log_expr_node_new_junction((yyvsp[0].ptr), &(yylsp[0])) : NULL; }
case 72:
  { log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[0].ptr)); (yyval.ptr) = (yyvsp[-2].ptr); }

case 73:
  { (yyval.ptr) = NULL; }

case 74:
  { (yyval.ptr) = (yyvsp[-1].ptr); }

case 75:
  { (yyval.ptr) = log_expr_node_new_log(log_expr_node_append_tail((yyvsp[-2].ptr), (yyvsp[-1].ptr)), (yyvsp[0].num), &(yyloc)); }

case 77:
  { (yyval.num) = (yyvsp[-2].num); }

case 78:
  { (yyval.num) = 0; }

case 79:
  { (yyval.num) = (yyvsp[-2].num); }

#line 3389 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

#line 3395 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

#line 3401 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

#line 3407 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

#line 3413 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

#line 3419 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

#line 3716 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
break;

#line 3731 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

#line 3769 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
break;

#line 3785 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
break;

#line 3801 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
break;

#line 3817 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

#line 3833 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

#line 3849 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

#line 3865 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

#line 3881 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;

#line 3897 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */
break;
{ (yyval.num) = log_expr_node_lookup_flag((yyvsp[-1].cptr)) | (yyvsp[0].num); free((yyvsp[-1].cptr)); }  
#line 3425 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */ 
break;

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

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

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

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

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

case 87:
#line 744 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */ 
{ (yyval.num) = 2; }  
#line 3461 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */ 
break;

case 88:
#line 754 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */ 
{ (yyval.ptr) = g_list_reverse((yyvsp[0].ptr)); }  
#line 3467 "lib/rewrite/rewrite-expr-grammar.c" /* yacc.c:1646 */ 
break;

case 89:
#line 758 "lib/rewrite/rewrite-expr-grammar.y" /* yacc.c:1646 */
case 100:
    last_source_options->keep_timestamp = (yyvsp[-1].num);
    break;

case 101:
    log_source_options_set_tags(last_source_options, (yyvsp[-1].ptr));
    last_host_resolve_options = &last_source_options->host_resolve_options;
    break;

case 103:
    last_host_resolve_options->use_fqdn = (yyvsp[-1].num);
    break;

case 104:
    last_host_resolve_options->use_dns = (yyvsp[-1].num);
    break;

case 105:
    last_host_resolve_options->use_dns_cache = (yyvsp[-1].num);
    break;

case 106:
    last_host_resolve_options->normalize_hostnames = (yyvsp[-1].num);
    break;

case 107:
    CHECK_ERROR(log_matcher_options_set_type(last_matcher_options, (yyvsp[-1].cptr)), (yylsp[-1]),
                "unknown matcher type"); free((yyvsp[-1].cptr));
    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. */
yny = yyr1[yyn];

yystate = yypgoto[yyn - YYNTOKENS] + *yssp;
if (0 <= yystate && yystate <= YYLAST && yycheck[yystate] == *yssp)
  yystate = yytable[yystate];
else
  yystate = yydefgoto[yyn - YYNTOKENS];

goto yynewstate;

/*-----------------------------.
 | yyerrlab -- here on detecting error. |
'--------------------------------------*/
yyerrlab:
/* Make sure we have latest lookahead translation. See comments at
user semantic actions for why this is necessary. */
yytoken = yychar == YYEMPTY ? YYEMPTY : YYTRANSLATE (yychar);
/* If not already recovering from an error, report this error. */
if (!yyerrstatus)
{
++yynerrs;
#if ! YYERROR_VERBOSE
yyerror (&yylloc, lexer, result, arg, YY_("syntax error"));
#else
# define YYSYNTAX_ERROR yysyntax_error (&yymsg_alloc, &yymsg, \
yyssp, yytoken)
{
char const *yymsgp = YY_("syntax error");
int yysyntax_error_status;
yysyntax_error_status = YYSYNTAX_ERROR;
if (yysyntax_error_status == 0)
yymsgp = yymsg;
else if (yysyntax_error_status == 1)
{
if (yymsg != yymsgbuf)
YYSTACK_FREE (yymsg);
yymsg = (char *) YYSTACK_ALLOC (yymsg_alloc);
if (!yymsg)
{
yymsg = yymsgbuf;
yymsg_alloc = sizeof yymsgbuf;
yysyntax_error_status = 2;
}
else
{
yysyntax_error_status = YYSYNTAX_ERROR;
yymsgp = yymsg;
}
}
yyerror (&yylloc, lexer, result, arg, yymsgp);
if (yysyntax_error_status == 2)
goto yyexhaustedlab;
}
# undef YYSYNTAX_ERROR
#endif
}
yyerror_range[1] = yylloc;

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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] = yylsp[1-yylen];
/* Do not reclaim the symbols of the rule whose action triggered
   this YYERROR. */
YYPOPSTACK (yylen);
yylen = 0;
YY_STACK_PRINT (yyss, yyssp);
yystate = *yyssp;
goto yyerrlab1;

/*------------------------------
| yyerrlab1 -- common code for both syntax error and YYERROR. |
'------------------------------*/
yyerrlab1:
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 (yyssp == yyss)
        YYABORT;

    yyerror_range[1] = *yylsp;
    yydestruct ("Error: popping",
                yystos[yystate], yyvsp, yylsp, lexer, result, arg);
    YYPOPSTACK (1);
    yystate = *yyssp;
    YY_STACK_PRINT (yyss, yyssp);
}

YY_IGNORE_MAYBE_UNINITIALIZED_BEGIN
    *++yyvsp = yylval;
YY_IGNORE_MAYBE_UNINITIALIZED_END

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

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

yystate = yyn;
goto yynewstate;

/*-----------------------------
| yyacceptlab -- YYACCEPT comes here. |
'-------------------------------------*/
yyacceptlab:
yyresult = 0;
goto yyreturn;
/*-----------------------------------.
| yyabortlab -- YYABORT comes here. |
'-----------------------------------*/
yyabortlab:
yyresult = 1;
goto yyreturn;
#if !defined yyoverflow || YYERROR_VERBOSE
/*-------------------------------------------------.
| yyexhaustedlab -- memory exhaustion comes here. |
'-------------------------------------------------*/
yyexhaustedlab:
yyerror (&yylloc, lexer, result, arg, YY_("memory exhausted"));
yyresult = 2;
/* Fall through. */
#endif
yyreturn:
if (yychar != YYEMPTY)
{
/* Make sure we have latest lookahead translation. See comments at
user semantic actions for why this is necessary. */
yytoken = YYTRANSLATE (yychar);
yydestruct ("Cleanup: discarding lookahead",
yytoken, &yylval, &yylloc, lexer, result, arg);
}
/* Do not reclaim the symbols of the rule whose action triggered
this YYABORT or YYACCEPT. */
YYPOPSTACK (yylen);
YY_STACK_PRINT (yyss, yyssp);
while (yyssp != yyss)
{
yydestruct ("Cleanup: popping",
yystos[*yyssp], yyvsp, yylsp, lexer, result, arg);
YYPOPSTACK (1);
}
#ifndef yyoverflow
if (yyss != yyssa)
YYSTACK_FREE (yyss);
#endif
#if YYERROR_VERBOSE
if (yymsg != yymsgbuf)
YYSTACK_FREE (yymsg);

Open Source Used In FXOS Security Module 2.7(1) and Cisco ASA Series 9.13(1)
2726


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#endif

return yyresult;

#endif

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=====

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

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1.174 sysstat 11.1.5

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.
1.176 sysvinit-inittab 2.88dsf

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1.186 tzdata 2015a :0ubuntu0.14.04

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1.187 udev 182

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1.188 udev_LGPLv2.1 182

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1.190 update-rc.d 0.7

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1.191 util-linux 2.26.2
1.191.1 Available under license:

<table>
<thead>
<tr>
<th>NR</th>
<th>START</th>
<th>END</th>
<th>SECTORS</th>
<th>SIZE</th>
<th>NAME</th>
<th>UUID</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7936</td>
<td>12799</td>
<td>4864</td>
<td>2.4M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>12544</td>
<td>16127</td>
<td>3584</td>
<td>1.8M</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>32</td>
<td>7679</td>
<td>7648</td>
<td>3.8M</td>
<td>8f8378c0-01</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>7680</td>
<td>16383</td>
<td>8704</td>
<td>4.3M</td>
<td>8f8378c0-02</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>7936</td>
<td>12799</td>
<td>4864</td>
<td>2.4M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>12544</td>
<td>16127</td>
<td>3584</td>
<td>1.8M</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

size: 4456448, sector size: 512, PT: bsd, offset: 512, id=(null)
---
#1: 7936 4864 0x7
#2: 12544 3584 0x7
size: 8388608, sector size: 512, PT: dos, offset: 446, id=8f8378c0
---
#1: 32 7648 0x83 uuid='8f8378c0-01'
#2: 7680 8704 0xa5 uuid='8f8378c0-02'
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
Initialize empty image
f1c9645dgc4efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2d0f055067c18f20c9 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8d2f51a8a045db233418dd73f6e bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>
Device    Boot  Start  End    Sectors  Size Id  Type
<removed>1  2048  4095  2048   1M  83 Linux
<removed>2  4096 20479 16384  8M a5 FreeBSD

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

Create default BSD
2e1cee529eb59e9341afe0f443f196a1 bsd.img

---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start     End   Sectors  Size Type     Fsize Bsize Cpg
c  4096  20479  16384   8M unused     0  0  0
d  0  16064  16064  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/optional): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

<table>
<thead>
<tr>
<th>Slice Start</th>
<th>End Sectors</th>
<th>Size Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096-6144</td>
<td>1M</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096-20479</td>
<td>8M unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0-16064</td>
<td>7.9M unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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):

Command (m for help):
#!/bin/bash
#
# This file is part of util-linux.
#
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#

TS_TOPDIR="${0%/*}/../..

TS_DESC="nested BSD"

. $TS_TOPDIR/functions.sh

# This file is part of util-linux.

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#set -x

FDISK_CMD_CREATE_DOSLABEL="o\n" # create dos label
FDISK_CMD_SETID="x\n0x1\n" # set non-random ID
FDISK_CMD_WRITE_CLOSE="w\nq\n" # write to image
FDISK_CMD_CREATE_PRIMARY1="n\np\n1\n+1M\n" # 1st primary partition of size 1MiB
FDISK_CMD_CREATE_PRIMARY2="n\np\n2\n" # 2nd primary partition for whole of the disk
FDISK_CMD_CHANGE_PART2TYPE="t\na\n7\n" # set partition 'a' to type 4.2BSD
FDISK_CMD_BSD_CREATE="b\ny\n" # create nested BSD PT
FDISK_CMD_BSD_LIST="b\nr\n" # list nested BSD PT and quit
FDISK_CMD_BSD_CREATE_PART="b\nm\n0\n+1M\n" # add BSD partition 'a', size 1MiB
FDISK_CMD_BSD_PARTTYPE="b\n7\n" # set partition 'a' to type 4.2BSD
FDISK_CMD_BSD_LIST_TYPES="b\nr\n" # list supported PT types and quit

#set -x

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BSD disk label depends on sector/offset and endianness. We convert the md5sums into the most common values (little endian, BSD_LABELSECTOR = 1, BSDLABELOFFSET = 0) so that they can be easily compared to the expected ones.

BYTE_ORDER=$($TS_HELPER_SYSINFO byte-order)

function fdisk_bsd_offset_and_byte_order_clean
{
    # expected md5sums are from x86 systems
    local md5_bsdimg1_LE_0_64="2e1cee529eb59e9341afe0443f196a1"
    local md5_bsdimg2_LE_0_64="b5c121c2091b2f26880551feac7112"

    if [ $BYTE_ORDER = "BE" ] ; then
        # BSD_LABELSECTOR = 0, BSDLABELOFFSET = 64
        sed -i \
            -e "s/c2273b52976352b75596c47c10b0725/$md5_bsdimg1_LE_0_64/" \
            -e "s/9a234a5b99e37d2ce0d92b65437b93cd/$md5_bsdimg2_LE_0_64/" \
            "$TS_OUTPUT"
        # BSD_LABELSECTOR = 1, BSDLABELOFFSET = 0
        sed -i \
            -e "s/6d760d7a8ef33b27cc6e27f1e8807d48/$md5_bsdimg1_LE_0_64/" \
            -e "s/3739c7f99adb24693a69edd7a99914e8/$md5_bsdimg2_LE_0_64/" \
            "$TS_OUTPUT"
    else
        # BSD_LABELSECTOR = 0, BSDLABELOFFSET = 64
        sed -i \
            -e "s/e990c8a1c2106a4cd4b008f16d71aaa6/$md5_bsdimg1_LE_0_64/" \
            -e "s/187a48c26e83d146b86668addc93702/$md5_bsdimg2_LE_0_64/" \
            "$TS_OUTPUT"
        # BSD_LABELSECTOR = 1, BSDLABELOFFSET = 64
        sed -i \
            -e "s/d760d7a8ef33b27cc6e27f1e8807d48/$md5_bsdimg1_LE_0_64/" \
            -e "s/3739c7f99adb24693a69edd7a99914e8/$md5_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
" >> $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
" >> $TS_OUTPUT
}

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

function printbsd_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
" >> $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
```

print_layout

ts_log "Set 2nd partition type"

```
echo -e "${FDISK_CMD_CHANGE_PART2TYPE}${FDISK_CMD_WRITE_CLOSE}" |
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1
```

print_layout

ts_log "Create default BSD"

```
echo -e "${FDISK_CMD_BSD_CREATE}${FDISK_CMD_WRITE_CLOSE}" |
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1
```

print_bsd_layout

```
echo -e "${FDISK_CMD_BSD_CREATE_PART}${FDISK_CMD_WRITE_CLOSE}" |
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1
```

print_bsd_layout

```
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.*//' >> $TS_OUTPUT 2>&1
```

fdisk_bsd_offset_and_byte_order_clean
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1.192 vim 7.4.769 :r0.0

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2855
Voice phone:
(33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F
" Vim syntax file
" Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001
if version < 600
" Remove any old syntax stuff hanging around
syn clear
elseif exists("b:current_syntax")
finish
endif
" Product specification files are case sensitive
syn case match
syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor
syn match psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString start=+"+ skip=+\\"+ end=+"+ contained
syn match psfObjTag "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*" contained
syn match psfAttAbbrev ",\<\(fa\|fr\|[aclqrv]\)\(<\|>\|<=\|>=\|=\|==\)[^,]\+" contained
syn match psfObjTags "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*\(\s\+\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9az]\+\)*\)*" contained
syn match psfNumber "\<\d\+\>" contained
syn match psfFloat "\<\d\+\>\(\.\<\d\+\>\)*" contained
syn match psfLongDate "\<\d\d\d\d\d\d\d\d\d\d\d\d\.\d\d\>" contained
syn keyword psfState available configured corrupt installed transient contained
syn keyword psfPState applied committed superseded contained
syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+[^#" ]~rs=e-1
contains=psfUnquotString,psfComment end=~$~ keepend oneline

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2856


Define the default highlighting.

For version 5.7 and earlier: only when not done already

For version 5.8 and later: only when an item doesn't have highlighting yet

if version >= 508 || !exists("did_psf_syntax_inits")

if version < 508
let did_psf_syntax_inits = 1
command -nargs=+ HiLink hi link <args>
else
   command -nargs=+ HiLink hi def link <args>
endif

HiLink psfObject       Statement
HiLink psfAttrib       Type
HiLink psfQuotString   String
HiLink psfObjTag       Identifier
HiLink psfAttAbbrev    PreProc
HiLink psfObjTags      Identifier

HiLink psfComment      Comment
delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
*uganda.txt*    For Vim version 7.4.  Last change: 2013 Jul 06

VIM REFERENCE MANUAL    by Bram Moolenaar

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

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

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

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

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

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

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
Finsterruethof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

1.193 which 2.21 :r3.0
1.193.1 Available under license :

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Version 3, 29 June 2007

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 casual text

1.196 xinetd 2.3.15
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So, if you want, you may use any 2.N.* (N >= 3) version string for future xinetd versions that you release. Note that I am excluding the 2.2.* line; using that would only create confusion. Naming the next release 2.3.0 would put to rest the confusion about 2.2.1 and 2.1.8.*.

#!/bin/sh
#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
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*/

## 1.197 xmlsec1 1.2.20

### 1.197.1 Available under license:

xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries

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References

* AOL
  http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

* Cordys R&D BV

* Cryptocom LTD

1.198 xz/xz-cli-tools 5.2.1 :1.0
1.198.1 Available under license:

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

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1.203 zlib 1.2.8

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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 Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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