Open Source Used In Nexus 7000 Series Switches 8.4(6)

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

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abstract: `Build and install Perl modules`
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
built_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
The "Artistic License"

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=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

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

my ($opt) = @ARGV;

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

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

# Otherwise simply check that the two copyright dates match each other:
else
{

is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

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

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

  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

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

  $year;
}

1.2 libpcap 1.6.1
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1.3 blas 1.2.20110419-7

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

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

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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End

1.7 libtasn 1.2

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@end example

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1.8 shadow 4.2.1
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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
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
** nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.

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*
* M. Welsh, 6 July 1996
*
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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for merging the nxt2002 and nxt2004 modules into a
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1.13 glib 2.40.0
1.14 inetutils 1.9.2

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1.16 boost 1.56.0
1.16.1 Available under license :

<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../../doc/src/boostbook.css" type="text/css">

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 the `true_type` inherits from `boost::mpl::true_`: the class used by the compiler to represent a `true` constant expression.

The `false_type` is defined as a `false_` instance.

The `integral_constant` template is used to represent constant expressions of integral types.
inherits from `<a href="../../../../libs/mpl/doc/refmanual/integral-c.html" target="_top">`\code
boost`\</a>`\</code>`\</span>`\</span>`\</div>`\</div>`

(provided `<code class="computeroutput">T</code>` is not `<code class="computeroutput">bool</code>`)  

</p>`\</p>`

<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>`
<td align="left"></td>`
<td align="right">`\div class="copyright-footer">Copyright &amp;#169; 2000, 2011 Adobe Systems Inc, David Abrahams,

Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant, 
Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten 
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</p>`\</p>`

</table>`

</hr>`

</div>`

</div>`

</body>`

</html>`

#!/usr/bin/env python

from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%x09%ad', filename],
              universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')
def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '[0]' if start.year == end.year else '[0]-[1]'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
        return map(itemgetter(1), sorted(f()))

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

[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
<?xml version="1.0" encoding="utf-8"?>

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<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<br>

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</para>

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauachmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Dettlefs(dettlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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namespace boost {
namespace intrusive {
namespace detail {

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

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

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

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

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

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

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

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

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

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

template< class T >
struct remove_reference< T& >
{
    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

#else

template <class T, class U>
class is_convertible
{

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

#endif

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

template<
    typename T1
    , typename T2
>
struct 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;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) &&
!defined(_M_ARM) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

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

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

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

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

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

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

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

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

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

#endif

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

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

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

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

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

#ifdef _MANAGED

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

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

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

#endif

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

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

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

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#endif

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

#ifndef _MANAGED

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

#endif

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

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

#endif

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

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template<typename T>
struct is_unary_or_binary_function
{ static const bool value = is_unary_or_binary_function_impl<T>::value; };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

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

template <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];
    };

template<>
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;
};

} //namespace intrusive
} //namespace boost

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

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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    // (See accompanying file LICENSE_1_0.txt or copy at
    // http://www.boost.org/LICENSE_1_0.txt)
    ///////////////////////////////////////////////////////////////////////////
#endif BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
```
#include <cstdint>

namespace boost {
    namespace container {
        namespace container_detail {

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

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

            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> {};
```

---

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#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
    >
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;
};
struct is_zeros<1>
{
    static const std::size_t value = 0;
};

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

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

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

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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// http://www.boost.org/LICENSE_1_0.txt)
//
//
////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if defined(_MSC_VER)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

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

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

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

typedef true_ true_type;
typedef false_ false_type;

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

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

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

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

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

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

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

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

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

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

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

template<std::size_t S>
struct ls_zeros
{

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

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

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

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

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "+//Boost//DTD BoostBook XML V1.0//EN" "http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $" xmlns:xi="http://www.w3.org/2001/XInclude">
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
<year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
<article>Copyright Test</article>
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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/\
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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL’s requirements
for an [@../../../../libs/mpl/doc/refmanual/integral-constant.html 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 [@../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::true_`],
`__false_type` inherits from [@../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::false_`], and `__integral_constant<T, v>` inherits from
[@../../../../libs/mpl/doc/refmanual/integral-c.html `boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`)

[endsect]

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Boost.Geometry (aka GGL, Generic Geometry Library)

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 */

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

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;

    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f) {}

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

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

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

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

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
    "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">\n"
    "<html>\n"
    "<head>\n"
    "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<
    "</title>\n"
"<head>
"<body>
"<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1) {
  os << " for " << *(m_module_list.begin());
}

os << "</H1><p>
"<H2>Contents</h2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
  os << "<a href="#summary">Licence Summary</a>
  os << "<a href="#details">Licence Details</a>
  os << "<a href="#files">Files with no recognised license</a>
  os << "<a href="#authors">Files with no recognised copyright holder</a>
  if(!m_bsl_summary_mode)
    os << "Moving to the Boost Software License...
      <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
      <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
      <a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
      <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
      <a href="#copyright">Copyright Holder Information</a>
</pre>

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

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

os << "Files Dependency Information"
"</pre>";

// input Information:
//

// os << "<a name="input"></a><h2>Input Information</h2>

if(m_scan_mode)
  os << "The following files were scanned for boost dependencies:<BR>
else
  os << "The following Boost modules were checked:<BR>";
std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>";
    ++si;
}
os << "</p><p>The Boost path was: " << 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\[[:blank:]*\d+]+(/\d+)\])$";
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100
    << "</p>\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">" << 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>\nThis license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files</P>";
    os << "<a href="#"" << make_link_target(licenses.first[i->first].license_name) << ""(see details)</a>";
    os << "</BLOCKQUOTE>\n";
    ++i;
and now the details:

```
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
    // title:
os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << "]"></a>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders: </P><BLOCKQUOTE>
    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>
    std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>\n";
    ++m;
}
os << "</P></BLOCKQUOTE>\n";
}
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
```
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><ul><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><ul><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><ul><p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:</p><BLOCKQUOTE><p>
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
    std::map<fs::path, std::pair<std::string, std::string>, path_less> conv;
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><br>
    << "<tt>\n\t\n\t\t</pre></td><n <td><pre>"
        << i->second.first << "</pre></td><n <td><pre>"
        << i->second.second << "</pre></td><n <tr>n</tr></n<table>\n";
    ++i;
    ++file_num;
}
//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
";
    "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) << "<br>"
        ++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>
";
    "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) << "<br>"
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
";
    "Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>
<BLOCKQUOTE><P>
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>
"));
    os << "</p></BLOCKQUOTE>

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

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

1.17 dash 1.22.1

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mksignames.c:

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1.18 gmp 6.0.0

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1.24 colorama 0.4.1

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1.25 sqlite 3.8.10.2
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/*
 ** CAPI3REF: Configuration Options
 ** KEYWORDS: {configuration option}
 **
 ** These constants are the available integer configuration options that
 ** can be passed as the first argument to the [sqlite3_config()] interface.
 **
 ** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued. Applications
 ** should check the return code from [sqlite3_config()] to make sure that
 ** the call worked. The [sqlite3_config()] interface will return a
 ** non-zero [error code] if a discontinued or unsupported configuration option
 ** is invoked.
 **
 ** <dl>
 ** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Single-thread. In other words, it disables
 ** all mutixing and puts SQLite into a mode where it can only be used
 ** by a single thread. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to change the [threading mode] from its default
 ** value of Single-thread and so [sqlite3_config()] will return
 ** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
 ** configuration option.</dt>
 **
 ** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Multi-thread. In other words, it disables
 ** mutixing on [database connection] and [prepared statement] objects.
 ** The application is responsible for serializing access to
 ** [database connections] and [prepared statements]. But other mutexes
 ** are enabled so that SQLite will be safe to use in a multi-threaded
 ** environment as long as no two threads attempt to use the same
 ** [database connection] at the same time. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to set the Multi-thread [threading mode] and
 ** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
 ** SQLITE_CONFIG_MULTITHREAD configuration option.</dt>
 **
 ** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Serialized. In other words, this option enables
 ** all mutexes including the recursive
 ** mutexes on [database connection] and [prepared statement] objects.
In this mode (which is the default when SQLite is compiled with
SQLITE_THREADSAFE=1) the SQLite library will itself serialize access
to [database connections] and [prepared statements] so that the
application is free to use the same [database connection] or the
same [prepared statement] in different threads at the same time.

If SQLite is compiled with
the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
it is not possible to set the Serialized [threading mode] and
[sqite3_config()] will return [SQLITE_ERROR] if called with the
SQLITE_CONFIG_SERIALIZE configuration option.

[[SQLITE_CONFIG_MALLOC]]
(The SQLITE_CONFIG_MALLOC option takes a single argument which is
a pointer to an instance of the [sqlite3_mem_methods] structure.
The argument specifies
alternative low-level memory allocation routines to be used in place of
the memory allocation routines built into SQLite.)
SQLite makes
its own private copy of the content of the [sqlite3_mem_methods] structure
before the [sqlite3_config()] call returns.

[[SQLITE_CONFIG_GET_MALLOC]]
(The SQLITE_CONFIG_GET_MALLOC option takes a single argument which
is a pointer to an instance of the [sqlite3_mem_methods] structure.
The [sqlite3_mem_methods] structure is filled with the currently defined memory allocation routines.)
This option can be used to overload the default memory allocation
routines with a wrapper that simulates memory allocation failure or
tracks memory usage, for example.

[[SQLITE_CONFIG_MEMSTATUS]]
The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
interpreted as a boolean, which enables or disables the collection of
memory allocation statistics. (When memory allocation statistics are
disabled, the following SQLite interfaces become non-operational:
<ul>
<li>[sqlite3_memory_used()]
<li>[sqlite3_memory_highwater()]
<li>[sqlite3_soft_heap_limit64()]
<li>[sqlite3_status64()]
</ul>)
Memory allocation statistics are enabled by default unless SQLite is
compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
allocation statistics are disabled by default.

[[SQLITE_CONFIG_SCRATCH]]
The SQLITE_CONFIG_SCRATCH option specifies a static memory buffer
that SQLite can use for scratch memory. (There are three arguments
** to SQLITE_CONFIG_SCRATCH: A pointer an 8-byte aligned memory buffer from which the scratch allocations will be drawn, the size of each scratch allocation (sz), and the maximum number of scratch allocations (N).^

** The first argument must be a pointer to an 8-byte aligned buffer of at least sz*N bytes of memory.

** ^ SQLite will not use more than one scratch buffer per thread.

** ^ SQLite will never request a scratch buffer that is more than 6 times the database page size.

** ^ If SQLite needs additional scratch memory beyond what is provided by this configuration option, then [sqlite3_malloc()] will be used to obtain the memory needed.<p>

** ^ When the application provides any amount of scratch memory using SQLITE_CONFIG_SCRATCH, SQLite avoids unnecessary large [sqlite3_malloc] heap allocations.

** This can help [Robson proof] prevent memory allocation failures due to heap fragmentation in low-memory embedded systems.

** </dd>

**<dt>SQLITE_CONFIG_PAGECACHE</dt>

** ^ The SQLITE_CONFIG_PAGECACHE option specifies a static memory buffer that SQLite can use for the database page cache with the default page cache implementation.

** This configuration should not be used if an application defines page cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2] configuration option.

** ^ There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to 8-byte aligned memory, the size of each page buffer (sz), and the number of pages (N).

** The sz argument should be the size of the largest database page (power of two between 512 and 65536) plus some extra bytes for each page header. ^The number of extra bytes needed by the page header can be determined using the [SQLITE_CONFIG_PCACHE_HDRSZ] option to [sqlite3_config()].

** ^ It is harmless, apart from the wasted memory, for the sz parameter to be larger than necessary. The first argument should point to an 8-byte aligned block of memory that is at least sz*N bytes of memory, otherwise subsequent behavior is undefined.

** ^ SQLite will use the memory provided by the first argument to satisfy its memory needs for the first N pages that it adds to cache. ^ If additional page cache memory is needed beyond what is provided by this option, then SQLite goes to [sqlite3_malloc()] for the additional storage space.</dd>

**<dt>SQLITE_CONFIG_HEAP</dt>

** ^ The SQLITE_CONFIG_HEAP option specifies a static memory buffer that SQLite will use for all of its dynamic memory allocation needs beyond those provided for by [SQLITE_CONFIG_SCRATCH] and
The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns [SQLITE_ERROR] if invoked otherwise.

There are three arguments to SQLITE_CONFIG_HEAP:

- An 8-byte aligned pointer to the memory,
- the number of bytes in the memory buffer, and the minimum allocation size.
- If the first pointer (the memory pointer) is NULL, then SQLite reverts to using its default memory allocator (the system malloc() implementation), undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. If the memory pointer is not NULL then the alternative memory allocator is engaged to handle all of SQLite's memory allocation needs.

The first pointer (the memory pointer) must be aligned to an 8-byte boundary or subsequent behavior of SQLite will be undefined.

The minimum allocation size is capped at $2^{12}$. Reasonable values for the minimum allocation size are $2^5$ through $2^8$.

The SQLITE_CONFIG_MUTEX option takes a single argument which is a pointer to an instance of the [sqlite3_mutex_methods] structure. The argument specifies alternative low-level mutex routines to be used in place of the mutex routines built into SQLite. SQLite makes a copy of the content of the [sqlite3_mutex_methods] structure before the call to [sqlite3_config()] returns. If SQLite is compiled with [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then the entire mutexing subsystem is omitted from the build and hence calls to [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will return [SQLITE_ERROR].

The SQLITE_CONFIG_GETMUTEX option takes a single argument which is a pointer to an instance of the [sqlite3_mutex_methods] structure. The [sqlite3_mutex_methods] structure is filled with the currently defined mutex routines. This option can be used to overload the default mutex allocation routines with a wrapper used to track mutex usage for performance profiling or testing, for example. If SQLite is compiled with [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then the entire mutexing subsystem is omitted from the build and hence calls to [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will return [SQLITE_ERROR].

The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine the default size of lookaside memory on each [database connection]. The first argument is the size of each lookaside buffer slot and the second is the number of slots allocated to each database connection.
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)</dd>
**
**  [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
**  <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom page cache implementation.)^
**  ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
**  [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
**  <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^</dd>
**
**  [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
**  <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
**  global [error log].
**  ^(The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
**  function with a call signature of void(*)(void*,int,const char*),
**  and a pointer to void. ^If the function pointer is not NULL, it is
**  invoked by [sqlite3_log()]) to process each logging event. ^If the
**  function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
**  ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
**  passed through as the first parameter to the application-defined logger
**  whenever that function is invoked. ^The second parameter to
**  the logger function is a copy of the first parameter to the corresponding
**  [sqlite3_log()] call and is intended to be a [result code] or an
**  [extended result code]. ^The third parameter passed to the logger is
**  log message after formatting via [sqlite3_snprintf()].
**  The SQLite logging interface is not reentrant; the logger function
**  supplied by the application must not invoke any SQLite interface.
**  In a multi-threaded application, the application-defined logger
**  function must be threadsafe. </dd>
**
**  [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
**  <dd> ^(The SQLITE_CONFIG_URI option takes a single argument of type int.
**  If non-zero, then URI handling is globally enabled. If the parameter is zero,
**  then URI handling is globally disabled.)^ ^If URI handling is globally
**  enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
**  [sqlite3_open16()] or
**  specified as part of [ATTACH] commands are interpreted as URIs, regardless
**  of whether or not the [SQLITE_OPEN_URI] flag is set when the database
**  connection is opened. ^If it is globally disabled, filenames are
**  only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
**  database connection is opened. ^By default, URI handling is globally
**  disabled. The default value may be changed by compiling with the
**  [SQLITE_USE_URI] symbol defined.)^
The `SQLITE_CONFIG_COVERING_INDEX_SCAN` option takes a single integer argument which is interpreted as a boolean in order to enable or disable the use of covering indices for full table scans in the query optimizer. The default setting is determined by the `[SQLITE_ALLOW_COVERING_INDEX_SCAN]` compile-time option, or is "on" if that compile-time option is omitted.

The ability to disable the use of covering indices for full table scans is because some incorrectly coded legacy applications might malfunction when the optimization is enabled. Providing the ability to disable the optimization allows the older, buggy application code to work without change even with newer versions of SQLite.

The `SQLITE_CONFIG_PCACHE` and `SQLITE_CONFIG_GETPCACHE` options are obsolete and should not be used by new code. They are retained for backwards compatibility but are now no-ops.

The `SQLITE_CONFIG_SQLLOG` option is only available if sqlite is compiled with the `[SQLITE_ENABLE_SQLLOG]` pre-processor macro defined. The first argument should be a pointer to a function of type `void(*)(void*,sqlite3*,const char*, int)`. The second should be of type `(void*)`. The callback is invoked by the library in three separate circumstances, identified by the value passed as the fourth parameter. If the fourth parameter is 0, then the database connection passed as the second argument has just been opened. The third argument points to a buffer containing the name of the main database file. If the fourth parameter is 1, then the SQL statement that the third parameter points to has just been executed. Or, if the fourth parameter is 2, then the connection being passed as the second parameter is being closed. The third parameter is passed NULL in this case. An example of using this configuration option can be seen in the "test_sqllog.c" source file in the canonical SQLite source tree.

`SQLITE_CONFIG_MMAP_SIZE` takes two 64-bit integer (sqlite3_int64) values that are the default mmap size limit (the default setting for [PRAGMA mmap_size]) and the maximum allowed mmap size limit. The default setting can be overridden by each database connection using either the [PRAGMA mmap_size] command, or by using the [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size will be silently truncated if necessary so that it does not exceed the compile-time maximum mmap size set by the [SQLITE_MAX_MMAP_SIZE] compile-time option.
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**</dl>
*/
/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain.
**
**************************************************************************
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
** May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

This file contains the VFS implementation for unix-like operating systems
include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.

There are actually several different VFS implementations in this file.
The differences are in the way that file locking is done. The default
implementation uses Posix Advisory Locks. Alternative implementations
use flock(), dot-files, various proprietary locking schemas, or simply
skip locking all together.

This source file is organized into divisions where the logic for various
subfunctions is contained within the appropriate division. PLEASE
KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
in the correct division and should be clearly labeled.

The layout of divisions is as follows:

* General-purpose declarations and utility functions.
* Unique file ID logic used by VxWorks.
* Various locking primitive implementations (all except proxy locking):
  + for Posix Advisory Locks
  + for no-op locks
  + for dot-file locks
  + for flock() locking
  + for named semaphore locks (VxWorks only)
  + for AFP filesystem locks (MacOSX only)
* sqlite3_file methods not associated with locking.
* Definitions of sqlite3_io_methods objects for all locking
  methods plus "finder" functions for each locking method.
* sqlite3_vfs method implementations.
* Locking primitives for the proxy uber-locking-method. (MacOSX only)
* Definitions of sqlite3_vfs objects for all locking methods
  plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
Return a pointer to the "temporary page" buffer held internally
by the pager. This is a buffer that is big enough to hold the
entire content of a database page. This buffer is used internally
during rollback and will be overwritten whenever a rollback
occurs. But other modules are free to use it too, as long as
no rollbacks are happening.
*/
/*
** Advance the cursor to the next entry in the database. If
** successful then set \*pRes=0. If the cursor
** was already pointing to the last entry in the database before
** this routine was called, then set \*pRes=1.
**
** The main entry point is sqlite3BtreeNext(). That routine is optimized
** for the common case of merely incrementing the cell counter BtCursor.aiIdx
** to the next cell on the current page. The (slower) btreeNext() helper
** routine is called when it is necessary to move to a different page or
** to restore the cursor.
**
** The calling function will set \*pRes to 0 or 1. The initial \*pRes value
** will be 1 if the cursor being stepped corresponds to an SQL index and
** if this routine could have been skipped if that SQL index had been
** a unique index. Otherwise the caller will have set \*pRes to zero.
** Zero is the common case. The btree implementation is free to use the
** initial \*pRes value as a hint to improve performance, but the current
** SQLite btree implementation does not. (Note that the comdb2 btree
** implementation does use this hint, however.)
*/

Found in path(s):
*/opt/cola/permits/103215794_1646171445.15/0/sqlite-amalgamation-201507162017-zip/sqlite3.c
No license file was found, but licenses were detected in source scan.

/**
** CAPI3REF: Configuration Options
** KEYWORDS: [configuration option]
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE] [SQLITE_THREADSAF=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLite_CONFIG_SINGLETHREAD
** configuration option.</dd>

**

** [[SQLITE_CONFIG_MULTITHREAD]]<dt>SQLITE_CONFIG_MULTITHREAD</dt>
**<dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>

**

** [[SQLITE_CONFIG_SERIALIZED]]<dt>SQLITE_CONFIG_SERIALIZED</dt>
**<dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>

**

** [[SQLITE_CONFIG_MALLOC]]<dt>SQLITE_CONFIG_MALLOC</dt>
**<dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>

**

** [[SQLITE_CONFIG_GETMALLOC]]<dt>SQLITE_CONFIG_GETMALLOC</dt>
**<dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^  
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
tracks memory usage, for example. </dd>

**

** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>

** <dd>^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
** <ul>
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]
** <li> [sqlite3_status64()]
** </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>

**

** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>

** <dd>^The SQLITE_CONFIG_SCRATCH option specifies a static memory buffer
** that SQLite can use for scratch memory. ^There are three arguments
** to SQLITE_CONFIG_SCRATCH: A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
** drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N).)^
** The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will not use more than one scratch buffers per thread.
** ^SQLite will never request a scratch buffer that is more than 6
** times the database page size.
** ^If SQLite needs needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.<p>
** ^When the application provides any amount of scratch memory using
** SQLITE_CONFIG_SCRATCH, SQLite avoids unnecessary large
** [sqlite3_malloc]heap allocations].
** This can help [Robson proof]prevent memory allocation failures] due to heap
** fragmentation in low-memory embedded systems.
** </dd>

**

** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>

** <dd>^The SQLITE_CONFIG_PAGECACHE option specifies a static memory buffer
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration should not be used if an application-define page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2]
** configuration option.
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using the [SQLITE_CONFIG_PCACHE_HDRSZ] option
** to [sqlite3_config()].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The first
** argument should point to an 8-byte aligned block of memory that
** is at least sz*N bytes of memory, otherwise subsequent behavior is
** undefined.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.</dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_SCRATCH] and
** [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** ^The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()]) returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutixing subsystem is omitted from the build and hence calls to
** [sqlite3_config()]] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutixing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**  
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^</dd>
**  
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom page cache implementation.)^ ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^</dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()]) to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
The third parameter passed to the logger is a log message after formatting via [sqlite3_snprintf()].

The SQLite logging interface is not reentrant; the logger function supplied by the application must not invoke any SQLite interface.

In a multi-threaded application, the application-defined logger function must be threadsafe.

[[SQLITE_CONFIG_URI]]

The SQLITE_CONFIG_URI option takes a single argument of type int. If non-zero, then URI handling is globally enabled. If the parameter is zero, then URI handling is globally disabled.

If URI handling is globally enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or specified as part of [ATTACH] commands are interpreted as URIs, regardless of whether or not the SQLITE_OPEN_URI flag is set when the database connection is opened.

If URI handling is globally disabled, filenames are only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the database connection is opened.

By default, URI handling is globally disabled. The default value may be changed by compiling with the SQLITE_USE_URI symbol defined.

[[SQLITE_CONFIG_COVERING_INDEX_SCAN]]

The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer argument which is interpreted as a boolean in order to enable or disable the use of covering indices for full table scans in the query optimizer.

The default setting is determined by the SQLITE_ALLOW_COVERING_INDEX_SCAN compile-time option, or is "on" if that compile-time option is omitted.

The ability to disable the use of covering indices for full table scans is because some incorrectly coded legacy applications might malfunction when the optimization is enabled. Providing the ability to disable the optimization allows the older, buggy application code to work without change even with newer versions of SQLite.

[[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]

These options are obsolete and should not be used by new code.

They are retained for backwards compatibility but are now no-ops.

[[SQLITE_CONFIG_SQLLOG]]

This option is only available if sqlite is compiled with the SQLITE_ENABLE_SQLLOG pre-processor macro defined. The first argument should be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).

The second should be of type (void*). The callback is invoked by the library in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection ** passed as the second argument has just been opened. The third argument ** points to a buffer containing the name of the main database file. If the ** fourth parameter is 1, then the SQL statement that the third parameter ** points to has just been executed. Or, if the fourth parameter is 2, then ** the connection being passed as the second parameter is being closed. The ** third parameter is passed NULL In this case. An example of using this ** configuration option can be seen in the "test_sqllog.c" source file in ** the canonical SQLite source tree.</p>

**

** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^

** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**

** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**

** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**

** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the

---

Open Source Used In Nexus 7000 Series Switches 8.4(6) 422
** [PRAGMA cache_size] setting and this value.
** */

Found in path(s):
* /opt/cola/permits/103215794_1646171445.15/0/sqlite-amalgamation-201507162017-zip/sqlite3.h

# 1.26 net-snmp 5.1.1

## 1.26.1 Available under license:

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5:eff2bb5b6.

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* 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.

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* 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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Source Files

----------

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com>
and David Slattengren <slatteng@Xinet.COM>. These files have been part
of the original Berkeley ditroff distribution, without AT&T code, and
are in the public domain.

The original package can be found at

    src/preproc/grn/gprint.h
    src/preproc/grn/hdb.cpp
    src/preproc/grn/hgraph.cpp
    src/preproc/grn/hpoint.cpp
    src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program
and thus has the X license.

    src/devices/xditview/DESC.in
    src/devices/xditview/Dvi.c
    src/devices/xditview/Dvi.h
    src/devices/xditview/DviP.h
    src/devices/xditview/FontMap
    src/devices/xditview/GXditview.ad
    src/devices/xditview/Menu.h
    src/devices/xditview/ad2c
    src/devices/xditview/device.c
    src/devices/xditview/device.h
    src/devices/xditview/draw.c
    src/devices/xditview/font.c
    src/devices/xditview/gray1.bm
    src/devices/xditview/gray2.bm
    src/devices/xditview/gray3.bm
    src/devices/xditview/gray4.bm
    src/devices/xditview/gray5.bm
    src/devices/xditview/gray6.bm
    src/devices/xditview/gray7.bm
    src/devices/xditview/gray8.bm
    src/devices/xditview/gxditview.man
    src/devices/xditview/lex.c
    src/devices/xditview/page.c
    src/devices/xditview/parse.c
Macro Packages
-------------

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

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

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

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

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

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

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

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

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

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

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

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyph-x-2017-03-31.pat' and `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl

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

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

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It was downloaded from <http://www.ch-werner.de/sqliteodbc/>

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<link rel="prev" href="compare_func.html" title="Comparison Function Signature Change" />
<link rel="next" href="sqlite_ver60.html" title="Updated SQLite Version" />
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1.34 urllib3 1.24.1

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# Contributions to the urllib3 project

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In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
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* Python 3 support

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* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
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* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovskiy <boris.figovskiy@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a Url
* Evgeny Kapun <abacadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.
* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6ygy1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix `util.selectors._fileobj_to_fd` to accept `long`.
* Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
1.35 gdb 7.7.1

1.35.1 Available under license:

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#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

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

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

template<typename BaseTarget>
class x86bsd_nat_target : public x86_nat_target<BaseTarget> {
  using base_class = x86_nat_target<BaseTarget>;
  public:
  #ifdef HAVE_PT_GETDBREGS
  void mourn_inferior () override {
    x86_cleanup_dregs ();
    base_class::mourn_inferior ();
  }

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

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

@endheading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

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@end smallexample

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

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

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

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, your
program's commands might be different; for a GUI interface, you would
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Version 2, June 1991

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

Preamble

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

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the
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a) Accompany the work with the complete corresponding
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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

c) If distribution of the work is made by offering access to copy
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d) Verify that the user has already received a copy of these
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Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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 ifndef AMD64_BSD_NAT_H
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 include "x86-bsd-nat.h"

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

 /* A prototype *BSD/AMD64 target. */

 template<typename BaseTarget>
 class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
 {
 public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_fetch_inferior_registers (regcache, regnum); }

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

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

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That's all there is to it!
/* Native-dependent code for modern i386 BSD's.

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#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache, int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache, int regnum);

/* A prototype *BSD/i386 target. */
template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
public:
void fetch_registers (struct regcache *regcache, int regnum) override
{ i386bsd_fetch_inferior_registers (regcache, regnum); }
}

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

#endif /* i386-bsd-nat.h */
BEGIN{
FS="\"",
print "/\* ==> Do not modify this file!!  " \
"."*- buffer-read-only: t -*.  vi" \
".set ro:"
print " It is created automatically by copying.awk."
print " Modify copying.awk instead.  <= *=="/"
print ""
print "#include \"defs.h\"
print "#include \"command.h\"
print "#include \"gdbcmd.h\"
print ""
print "static void show_copying_command (const char *, int);"
print ""
print "static void show_warranty_command (const char *, int);"
print ""
print "static void";
print "show_copying_command (const char *ignore, int from_tty)"
print "[ ";
}
NR == 1;/\^[ ]*15\. Disclaimer of Warranty[ ]*$/
if ($0 ~ //)
{  printf " printf_filtered (\"\n\n\n\n"
}
else if ($0 !~ /\^[ ]*15\. Disclaimer of Warranty[ ]*$/)
{  printf " printf_filtered (\""
    for (i = 1; i < NF; i++)
printf "\%s\n\n\n", $i;
    printf "\%s\n\n\n", $NF;
  }
}

/\^[ ]*15\. Disclaimer of Warranty[ ]*$/
print "]\n"
print ""
print "static void"
print "show_warranty_command (const char *ignore, int from_tty)";
print "}
}

/* [ ] */ 15. Disclaimer of Warranty
// END OF TERMS AND CONDITIONS
if (! (S0 ~ /[ ] END OF TERMS AND CONDITIONS/[ ]$/))
{
  printf " printf_filtered (";
  for (i = 1; i < NF; i++)
  printf "\n%s\n", $i;
  printf "\n", $NF;
}

END{
print "}";
print "
print "void"
print " _initialize_copying (void)";
print "}
;
print " add_cmd ("copying", no_set_class, show_copying_command,";
print " _("Conditions for redistributing copies of GDB."),";
print " &showlist);";
print " add_cmd ("warranty", no_set_class, show_warranty_command,";
print " _("Various kinds of warranty you do not have."),";
print " &showlist);";
print "
print " /* For old-timers, allow "info copying", etc. */
print " add_info ("copying", show_copying_command,";
print " _("Conditions for redistributing copies of GDB."));";
print " add_info ("warranty", show_warranty_command,";
print " _("Various kinds of warranty you do not have."));";
print "
}

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

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Open Source Used In Nexus 7000 Series Switches 8.4(6) 582
#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "process-stratum-target.h"
#include "value.h"
#include "gdbcore.h"
#include "inferior.h"  /* for get_exec_file */
#include "gdbthread.h"

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

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

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

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

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

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

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

class bsd_kvm_target final : public process_stratum_target
{
public:
    bsd_kvm_target () = default;

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

    void close () override;

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

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

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

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

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

    target_preopen (from_tty);
if (arg)
{
    char *temp;

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

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

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

add_thread_silent (bsd_kvm_ptid);
inferior_ptid = bsd_kvm_ptid;

target_fetch_registers (get_current_regcache (), -1);

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

if (nl[0].n_value != 0)
  {
    /* Found dumppcb. If it contains a valid context, return immediately. */
    if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
      return;
  }

/* Traditional BSD kernels have a process proc0 that should always be present. The address of proc0's PCB is stored in the variable "proc0paddr". */
memset (nl, 0, sizeof nl);
nl[0].n_name = ".proc0paddr'';

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

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

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

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}

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

memset (nl, 0, sizeof nl);
nl[0].n_name = ".thread0'';

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

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

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

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}
#endif

/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));
}
/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

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

#ifndef HAVE_STRUCT_THREAD_TD_PCB

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

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

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

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

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

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

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

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

    target_fetch_registers (get_current_regcache (), -1);
    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}
if (core_kd == NULL)
    error ("No kernel memory image.");

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

target_fetch_registers (get_current_regcache (), -1);

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

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

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

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

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

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);

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

#ifndef HAVE_STRUCT_THREAD_TD_PCB
    add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
        _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif

    add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
        /* i18n: PCB == "Process Control Block". */
        _("Set current context from pcb address"), &bsd_kvm_cmdlist);
/* Some notes on the ptid usage on this target.

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

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

bsd_kvm_ptid = ptid_t (1, 1, 0);
}

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#! /usr/bin/env python

# Copyright (C) 2011-2019 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
This script updates the list of years in the copyright notices in most files maintained by the GDB project.

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

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

import datetime
import os
import os.path
import subprocess

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

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

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]
    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)
    for line in update_out:
        if line.endswith('n'):
            line = line[:-1]
        if line.endswith(warning_string):
            line = line

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

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.
    The filename is relative to the root directory.
    This function assumes that the current working directory is that root directory.

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

    fd = open(filename)

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

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

    update_list = get_update_list()
update_files (update_list)

    # Remind the user that some files need to be updated by HAND...
if MULTIPLE_COPYRIGHT_HEADERS:
    print
    print("\033[31m"
          "REMINDER: Multiple copyright headers must be updated by hand:""
      \033[0m")
    for filename in MULTIPLE_COPYRIGHT_HEADERS:
        print " ", filename

if BY_HAND:
    print
    print "\033[31mREMINDER: The following files must be updated by hand." \
          "\033[0m"
    for filename in BY_HAND:
        print " ", filename

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

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

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

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

Files containing multiple copyright headers. This script is only  
fixing the first one it finds, so we need to finish the update  
by hand.

MULTIPLE_COPYRIGHT_HEADERS = (  
    "gdb/doc/gdb.texinfo",  
    "gdb/doc/refcard.tex",  
    "gdb/gdbarch.sh",  
)

# The list of files which have a copyright, but not head by the FSF.  
# Filenames are relative to the root directory.

NOT_FSF_LIST = (  
    "gdb/exc_request.defs",  
    "gdb/gdbtk",  
    "gdb/testsuite/gdb gdbtk/",  
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",  
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",  
    "sim/arm/armos.h", "sim/arm/armcpro.c", "sim/arm/armemu.c",  
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",  
    "sim/arm/armopt.h", "sim/arm/dbg cp.h", "sim/arm/dbg rdi.h",  
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",  
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",  
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",  
    "sim/arm/arminit.c",  
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",  
    "sim/common/cgen-acfpc.e",  
    "sim/mips/m16run.c", "sim/mips/sim-main.c",  
    "sim/moxie/moxie-gdb.dts",  
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.  
    "sim/ppc/filter.h", "sim/ppc/genc support.h", "sim/ppc/ld-insn.h",  
    "sim/ppc/hw sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",  
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw core.c",  
    "sim/ppc/genc support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",  
    "sim/ppc/sim callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",  
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc test.01",  
    "sim/ppc/hw phbc.c", "sim/ppc/hw eeprom.c", "sim/ppc/bits.h",  
    "sim/ppc/hw vm.c", "sim/ppc/cap.h", "sim/ppc/os emul.h",  
    "sim/ppc/options.h", "sim/ppc/genc decode.c", "sim/ppc/filter.c",  
    "sim/ppc/corefile n.h", "sim/ppc/std config.h", "sim/ppc/ld decode.h",  
    "sim/ppc/filter filenname.h", "sim/ppc/hw shm.c",  
    "sim/ppc/pk disklabel.c", "sim/ppc/dc simple", "sim/ppc/misc.h",  
    "sim/ppc/device table.h", "sim/ppc/ld insn.c", "sim/ppc/inline.c",  
    "sim/ppc/emul bugapi.h", "sim/ppc/hw cpu.h", "sim/ppc/debug.h",  
)
if __name__ == '__main__':
    main()

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  o freetype@nongnu.org

   Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

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Our home page can be found at

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src/base/md5.c
src/base/md5.h

src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk

src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk

src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
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1.41 libnss-mdns 0.10

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

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

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

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

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

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

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

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

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

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Otherwise, if the work is a derivative of the Library, you may
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Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.
The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of

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Open Source Used In Nexus 7000 Series Switches 8.4(6) 896
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.49 libcap-ng 0.6.6
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hein, Jochen
Jerovek, Damir
Karvonen, Jorma
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frédéric
Margevičius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgR
Sendin, Abel
Taniguchi, Yasuaki
Uranga, Mikel Olasagasti
Wang, Wylmer

1.51 tar 1.27.1

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1.53 pnp 1.4.0

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1.54 tcl 8.6.1

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------------------------------------------------------------------------
>>> [incr Tcl] >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
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from setuptools import setup, find_packages
import io
import re

VERSION = re.search("VERSION = '([^']+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__file__'),
    'webencodings', '__init__.py'),
    encoding='utf-8')
).read().strip().group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__)), 'README.rst'),
    encoding='utf-8')
```python
setup(  
    name='webencodings',  
    version=VERSION,  
    url='https://github.com/SimonSapin/python-webencodings',  
    license='BSD',  
    author='Simon Sapin',  
    author_email='simon.sapin@exyr.org',  
    maintainer='Geoffrey Sneddon',  
    maintainer_email='me@gsnedders.com',  
    description='Character encoding aliases for legacy web content',  
    long_description=LONG_DESCRIPTION,  
    classifiers=[  
        'Development Status :: 4 - Beta',  
        'Intended Audience :: Developers',  
        'License :: OSI Approved :: BSD License',  
        'Programming Language :: Python',  
        'Programming Language :: Python :: 2',  
        'Programming Language :: Python :: 2.6',  
        'Programming Language :: Python :: 2.7',  
        'Programming Language :: Python :: 3',  
        'Programming Language :: Python :: 3.3',  
        'Programming Language :: Python :: 3.4',  
        'Programming Language :: Python :: 3.5',  
        'Programming Language :: Python :: 3.6',  
        'Programming Language :: Python :: Implementation :: CPython',  
        'Programming Language :: Python :: Implementation :: PyPy',  
        'Topic :: Internet :: WWW/HTTP',  
    ],  
    packages=find_packages(),
)
```

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar-gz/webencodings-0.5.1/setup.py
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```bash
==

webencodings.mklabels
~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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```
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = [""

    webencodings.labels
    ~~~~~~~~~~~~~~~~~~~

    Map encoding labels to their name.

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    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    LABELS = {
    ""]
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category
        for label in encoding['labels']
    ]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}
    return ''.join(parts)

if __name__ == '__main__':
print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1.tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like `Content-Type: text/html; charset=latin1`,
tools need to use a particular set of aliases for encoding labels as well as some overriding rules.
For example, `US-ASCII` and `iso-8859-1` on the web are actually aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.
The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
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* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like `Content-Type: text/html; charset=latin1`, tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration. The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.
1.57 procps 3.2.8

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1.58 binutils 2.24

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

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

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

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

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

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

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work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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which the executable runs, unless that component itself accompanies the executable.

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1.62 libuser 0.60

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

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

Otherwise, if the work is a derivative of the Library, you may
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b) Use a suitable shared library mechanism for linking with the
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src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
Macro Packages
-------------

. The `mdoc` macro set, using the BSD license.

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

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

  tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
Hyphenation Patterns
---------------------

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

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

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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. The file `tmac/hyphen.fr' contains the same patterns as the file
`frhyph.tex' (for TeX), which can be found at

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
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-.*- text -*.-

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1.72 lsof 4.87

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

Written by: Philip Hazel
Email local part: ph10
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/* number.c: Implements arbitrary precision numbers. */
/*

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       Western Washington University
       Bellingham, WA 98226-9062

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

#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>/* Prototypes needed for external utility routines. */

#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

_PROTOTYPE(void rt_warn, (char *mesg ,...));
_PROTOTYPE(void rt_error, (char *mesg ,...));
_PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num _zero_
bc_num _one_
bc_num _two_

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */

bc_num
bc_new_num (length, scale)
    int length, scale;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
    temp->n_ptr = (char *) malloc (length+scale);
    if (temp->n_ptr == NULL) bc_out_of_memory();
    temp->n_value = temp->n_ptr;
    memset (temp->n_ptr, 0, length+scale);
    return temp;
}

/* "Frees" a bc_num NUM. Actually decreases reference count and only frees the storage if reference count is zero. */
void
bc_free_num (num)
    bc_num *num;
{
    if (*num == NULL) return;
    (*num)->n.refs--; 
    if (((*num)->n.refs == 0) { 
        if (((*num)->n.ptr) 
            free ((*num)->n.ptr);
        (*num)->n_next = _bc_Free_list; 
        _bc_Free_list = *num;
    }
    *num = NULL;
}

/* Initialize the number package! */

void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
    _one_  = bc_new_num (1,0);
    _one_ ->n_value[0] = 1;
    _two_  = bc_new_num (1,0);
    _two_ ->n_value[0] = 2;
}

/* Make a copy of a number! Just increments the reference count! */

bc_num
bc_copy_num (num)
    bc_num num;
{
    num->n.refs++;
    return num;
}

/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)
    bc_num *num;
{
    *num = bc_copy_num (_zero_);
}
/* For many things, we may have leading zeros in a number NUM.
   _bc_rm_leading_zeros just moves the data "value" pointer to the
   correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)
   bc_num num;
{
   /* We can move n_value to point to the first non zero digit! */
   while (*num->n_value == 0 && num->n_len > 1) {
      num->n_value++;
      num->n_len--;
   }
}

/* Compare two bc numbers.  Return value is 0 if equal, -1 if N1 is less
   than N2 and +1 if N1 is greater than N2.  If USE_SIGN is false, just
   compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
   bc_num n1, n2;
   int use_sign;
   int ignore_last;
{
   char *n1ptr, *n2ptr;
   int  count;

   /* First, compare signs. */
   if (use_sign && n1->n_sign != n2->n_sign)
   {
      if (n1->n_sign == PLUS)
         return (1); /* Positive N1 > Negative N2 */
      else
         return (-1); /* Negative N1 < Positive N1 */
   }

   /* Now compare the magnitude. */
   if (n1->n_len != n2->n_len)
   {
      if (n1->n_len > n2->n_len)
      {
         /* Magnitude of n1 > n2. */
         if (!use_sign || n1->n_sign == PLUS)
            return (1);
      }
   }
}
return (-1);
} else {
  /* Magnitude of n1 < n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (-1);
  else
    return (1);
}

/* If we get here, they have the same number of integer digits. */
  check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
{
  n1ptr++;
  n2ptr++;
  count--;
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
  return (0);
if (count != 0)
{
  if (*n1ptr > *n2ptr)
  {
    /* Magnitude of n1 > n2. */
    if (!use_sign || n1->n_sign == PLUS)
      return (1);
    else
      return (-1);
  } else {
    /* Magnitude of n1 < n2. */
    if (!use_sign || n1->n_sign == PLUS)
      return (-1);
    else
      return (1);
  }
}

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
if (n1->n_scale > n2->n_scale)
{
    for (count = n1->n_scale-n2->n_scale; count>0; count--)
    {
        if (*n1ptr++ != 0)
            /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
}
else
{
    for (count = n2->n_scale-n1->n_scale; count>0; count--)
    {
        if (*n2ptr++ != 0)
            /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}
/* They must be equal! */
return (0);

/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)
    bc_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
}
/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    bc_num num;
{
    return num->n_sign == MINUS;
/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    bc_num num;
{
    int count;
    char *nptr;

    /* Quick check. */
    if (num == _zero_) return TRUE;

    /* Initialize */
    count = num->n_len + num->n_scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0)
        return FALSE;
    else
        return TRUE;
}

/* In some places we need to check if the number NUM is almost zero. 
   Specifically, all but the last digit is 0 and the last digit is 1. 
   Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{
    int count;
    char *nptr;

    /* Error checking */
    if (scale > num->n_scale)
        scale = num->n_scale;

    /* Initialize */
    count = num->n_len + scale;
    nptr = num->n_value;

    /* The check */
while ((count > 0) && (*nptr++ == 0)) count--;

if (count != 0 && (count != 1 || *--nptr != 1))
    return FALSE;
else
    return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is 
   returned. The signs of N1 and N2 are ignored. 
   SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
    char *n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
    int count;

    /* Prepare sum. */
    sum_scale = MAX (n1->n_scale, n2->n_scale);
    sum_digits = MAX (n1->n_len, n2->n_len) + 1;
    sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > sum_scale)
        {
            sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
            for (count = scale_min - sum_scale; count > 0; count--)
                *sumptr++ = 0;
        }

    /* Start with the fraction part. Initialize the pointers. */
    n1bytes = n1->n_scale;
    n2bytes = n2->n_scale;
    n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
    n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
    sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

    /* Add the fraction part. First copy the longer fraction.*/
    if (n1bytes != n2bytes)
        {
            if (n1bytes > n2bytes)
while (n1bytes > n2bytes)
    { *sumptr-- = *n1ptr--; n1bytes--; }
else
while (n2bytes > n1bytes)
    { *sumptr-- = *n2ptr--; n2bytes--; }
}

/* Now add the remaining fraction part and equal size integer parts. */

n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
    { 
        *sumptr = *n1ptr-- + *n2ptr-- + carry;
        if (*sumptr > (BASE-1))
            { 
                carry = 1;
                *sumptr -= BASE;
            }
        else
            carry = 0;
        sumptr--;
        n1bytes--;
        n2bytes--;
    }

/* Now add carry the longer integer part. */

if (n1bytes == 0)
    { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
    { 
        *sumptr = *n1ptr-- + carry;
        if (*sumptr > (BASE-1))
            { 
                carry = 1;
                *sumptr -= BASE;
            }
        else
            carry = 0;
        sumptr--;
    }

/* Set final carry. */
if (carry == 1)
    { *sumptr += 1; }

/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;
}

/* Perform subtraction: N2 is subtracted from N1 and the value is returned. The signs of N1 and N2 are ignored. Also, N1 is assumed to be larger than N2. SCALE_MIN is the minimum scale of the result. */

static bc_num _bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num diff;
    int diff_scale, diff_len;
    int min_scale, min_len;
    char *n1ptr, *n2ptr, *diffptr;
    int borrow, count, val;

    /* Allocate temporary storage. */
    diff_len = MAX (n1->n_len, n2->n_len);
    diff_scale = MAX (n1->n_scale, n2->n_scale);
    min_len = MIN  (n1->n_len, n2->n_len);
    min_scale = MIN (n1->n_scale, n2->n_scale);
    diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > diff_scale)
    {
        diffptr = (char *) (diff->n_value + diff_len + diff_scale);
        for (count = scale_min - diff_scale; count > 0; count--)
            *diffptr++ = 0;
    }

    /* Initialize the subtract. */
    n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
    n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
    diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

    /* Subtract the numbers. */
    borrow = 0;

    /* Take care of the longer scaled number. */
    if (n1->n_scale != min_scale)
    {
        /* n1 has the longer scale */
        for (count = n1->n_scale - min_scale; count > 0; count--)
        {
            ...
\*diffptr-- = *n1ptr--; 
}
else
{
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
    {
        val = - *n2ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
        borrow = 0;
    *diffptr-- = val;
}
/* Now do the equal length scale and integer parts. */
for (count = 0; count < min_len + min_scale; count++)
{
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
    {
        val += BASE;
        borrow = 1;
    }
    else
    borrow = 0;
    *diffptr-- = val;
}
/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
{
    for (count = diff_len - min_len; count > 0; count--)
    {
        val = *n1ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
        borrow = 0;
    *diffptr-- = val;
/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;
}

/* Here is the full subtract routine that takes care of negative numbers.
N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN
is the minimum scale for the result. */

void
bc_sub (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign != n2->n_sign)
    {
        diff = _bc_do_add (n1, n2, scale_min);
        diff->n_sign = n1->n_sign;
    }
    else
    {
        /* subtraction must be done. */
        /* Compare magnitudes. */
        cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
        switch (cmp_res)
        {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            diff = _bc_do_sub (n2, n1, scale_min);
            diff->n_sign = n2->n_sign == PLUS ? MINUS : PLUS;
            break;
        case 0:
            /* They are equal! return zero! */
            res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
            diff = bc_new_num (1, res_scale);
            memset (diff->n_value, 0, res_scale+1);
            break;
        case 1:
            /* n2 is less than n1, subtract n2 from n1. */
            diff = _bc_do_sub (n1, n2, scale_min);
            break;
        }
diff->n_sign = n1->n_sign;
break;
}
}

/* Clean up and return. */
bc_free_num (result);
*result = diff;
}

/* Here is the full add routine that takes care of negative numbers.
N1 is added to N2 and the result placed into RESULT. SCALE_MIN
is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num sum = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign == n2->n_sign)
    {
        sum = _bc_do_add (n1, n2, scale_min);
        sum->n_sign = n1->n_sign;
    }
    else
    {
        /* subtraction must be done. */
        cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
        switch (cmp_res)
        {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            sum = _bc_do_sub (n2, n1, scale_min);
            sum->n_sign = n1->n_sign;
            break;
        case 0:
            /* They are equal! return zero with the correct scale! */
            res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
            sum = bc_new_num (1, res_scale);
            memset (sum->n_value, 0, res_scale+1);
            break;
        case 1:
            /* n2 is less than n1, subtract n2 from n1. */
            break;
        }
sum = _bc_do_sub (n1, n2, scale_min);
sum->n_sign = n1->n_sign;
}
}

/* Clean up and return. */
bc_free_num (result);
*result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
    temp->n_ptr = NULL;
    temp->n_value = value;
    return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
    int full_scale)
char *n1ptr, *n2ptr, *pvptr;
char *n1end, *n2end;/ * To the end of n1 and n2. */
int indx, sum, prodlen;

prodlen = n1len+n2len+1;

*prod = bc_new_num (prodlen, 0);

n1end = (char *) (n1->n_value + n1len - 1);
n2end = (char *) (n2->n_value + n2len - 1);
pvptr = (char *) ((*prod)->n_value + prodlen - 1);
sum = 0;

/* Here is the loop... */
for (indx = 0; indx < prodlen-1; indx++)
{
    n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
    n2ptr = (char *) (n2end - MIN(indx, n2len-1));
    while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
    sum += *n1ptr-- * *n2ptr++;
    *pvptr-- = sum % BASE;
    sum = sum / BASE;
}
*pvptr = sum;

/* A special adder/subtractor for the recursive divide and conquer multiply algorithm. Note: if sub is called, accum must be larger that what is being subtracted. Also, accum and val must have n_scale = 0. (e.g. they must look like integers. *) */
static void _bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
    signed char *accp, *valp;
    int count, carry;

    count = val->n_len;
    if (val->n_value[0] == 0)
        count--;
    assert (accum->n_len+accum->n_scale >= shift+count);

/* Set up pointers and others */
    accp = (signed char *) (accum->n_value +
        accum->n_len + accum->n_scale - shift - 1);
    valp = (signed char *) (val->n_value + val->n_len - 1);
    carry = 0;
if (sub) {
    /* Subtraction, carry is really borrow. */
    while (count--) {
        *accp -= *valp-- + carry;
        if (*accp < 0) {
            *accp-- += BASE;
        } else {
            carry = 0;
            accp--;
        }
    }
    while (carry) {
        *accp -= carry;
        if (*accp < 0)
            *accp-- += BASE;
        else
            carry = 0;
    }
} else {
    /* Addition */
    while (count--) {
        *accp += *valp-- + carry;
        if (*accp > (BASE-1)) {
            *accp-- -= BASE;
        } else {
            carry = 0;
            accp--;
        }
    }
    while (carry) {
        *accp += carry;
        if (*accp > (BASE-1))
            *accp-- -= BASE;
        else
            carry = 0;
    }
}

/* Recursive divide and conquer multiply algorithm. 
   Based on 
   Let u = u0 + u1*(b^n)
   Let v = v0 + v1*(b^n)
   Then uv = (B^n2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0 */
B is the base of storage, number of digits in u1,u0 close to equal.

static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
        int full_scale)
{
    bc_num u0, u1, v0, v1;
    int u0len, v0len;
    bc_num m1, m2, m3, d1, d2;
    int n, prodlen, m1zero;
    int d1len, d2len;

    /* Base case? */
    if ((ulen+vlen) < mul_base_digits
        || ulen < MUL_SMALL_DIGITS
        || vlen < MUL_SMALL_DIGITS ) {
        _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
        return;
    }

    /* Calculate n -- the u and v split point in digits. */
    n = (MAX(ulen, vlen)+1) / 2;

    /* Split u and v. */
    if (ulen < n) {
        u1 = bc_copy_num (_zero_);
        u0 = new_sub_num (ulen,0, u->n_value);
    } else {
        u1 = new_sub_num (ulen-n, 0, u->n_value);
        u0 = new_sub_num (n, 0, u->n_value+ulen-n);
    }
    if (vlen < n) {
        v1 = bc_copy_num (_zero_);
        v0 = new_sub_num (vlen,0, v->n_value);
    } else {
        v1 = new_sub_num (vlen-n, 0, v->n_value);
        v0 = new_sub_num (n, 0, v->n_value+vlen-n);
    }
    _bc_rm_leading_zeros (u1);
    _bc_rm_leading_zeros (u0);
    u0len = u0->n_len;
    _bc_rm_leading_zeros (v1);
    _bc_rm_leading_zeros (v0);
    v0len = v0->n_len;

    m1zero = bc_is_zero(u1) || bc_is_zero(v1);

    /* Calculate sub results */
bc_init_num(&d1);
bc_init_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
  m1 = bc_copy_num (_zero_);
else
  _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);
if (bc_is_zero(d1) || bc_is_zero(d2))
  m2 = bc_copy_num (_zero_);
else
  _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);
if (bc_is_zero(u0) || bc_is_zero(v0))
  m3 = bc_copy_num (_zero_);
else
  _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);
if (!m1zero) {
  _bc_shift_addsub (*prod, m1, 2*n, 0);
  _bc_shift_addsub (*prod, m1, n, 0);
}
  _bc_shift_addsub (*prod, m3, n, 0);
  _bc_shift_addsub (*prod, m3, 0, 0);
  _bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);
/* Now clean up! */
bc_free_num (&u1);
bcs_free_num (&u0);
bcs_free_num (&v1);
bcs_free_num (&m1);
bcs_free_num (&v0);
bcs_free_num (&m2);
bcs_free_num (&m3);
bcs_free_num (&d1);
bcs_free_num (&d2);
void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;

    /* Initialize things. */
    len1 = n1->n_len + n1->n_scale;
    len2 = n2->n_len + n2->n_scale;
    full_scale = n1->n_scale + n2->n_scale;
    prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

    /* Do the multiply */
    _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

    /* Assign to prod and clean up the number. */
    pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
    pval->n_value = pval->n_ptr;
    pval->n_len = len2 + len1 + 1 - full_scale;
    pval->n_scale = prod_scale;
    _bc_rm_leading_zeros (pval);
    if (bc_is_zero (pval))
        pval->n_sign = PLUS;
    bc_free_num (prod);
    *prod = pval;
}

/* Some utility routines for the divide: First a one digit multiply.  
NUM (with SIZE digits) is multiplied by DIGIT and the result is 
placed into RESULT.  It is written so that NUM and RESULT can be 
the same pointers.  */

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
    int carry, value;
    unsigned char *nptr, *rptr;
if (digit == 0)
    memset (result, 0, size);
else
{
    if (digit == 1)
memcpy (result, num, size);
    else
{
        /* Initialize */
    nptr = (unsigned char *) (num+size-1);
    rptr = (unsigned char *) (result+size-1);
    carry = 0;

    while (size-- > 0)
{
        value = *nptr-- * digit + carry;
        *rptr-- = value % BASE;
        carry = value / BASE;
    }

    if (carry != 0) *rptr = carry;
}
}
}

/* The full division routine. This computes N1 / N2. It returns
0 if the division is ok and the result is in QUOT. The number of
digits after the decimal point is SCALE. It returns -1 if division
by zero is tried. The algorithm is found in Knuth Vol 2. p237. */

int
bc_divide (n1, n2, quot, scale)
bc_num n1, n2, *quot;
int scale;
{
bc_num qval;
unsigned char *num1, *num2;
unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
int scale1, val;
unsigned int len1, len2, scale2, qdigits, extra, count;
unsigned int qdig, qguess, borrow, carry;
unsigned char *mval;
char zero;
unsigned int norm;

    /* Test for divide by zero. */
if (bc_is_zero (n2)) return -1;

/* Test for divide by 1.  If it is we must truncate. */
if (n2->n_scale == 0)
{
    if (n2->n_len == 1 && *n2->n_value == 1)
    {
        qval = bc_new_num (n1->n_len, scale);
        qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
        memset (&qval->n_value[n1->n_len],0,scale);
        memcpy (qval->n_value, n1->n_value,
                n1->n_len + MIN(n1->n_scale,scale));
        bc_free_num (quot);
        *quot = qval;
    }
}

/* Set up the divide.  Move the decimal point on n1 by n2's scale.
   Remember, zeros on the end of num2 are wasted effort for dividing. */
scale2 = n2->n_scale;
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
    extra = scale - scale1;
else
    extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);
len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
{
    n2ptr++;
    len2--;
}

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
{ qdigits = scale+1;
  zero = TRUE;
} else
{
  zero = FALSE;
  if (len2>len1)
    qdigits = scale+1; /* One for the zero integer part. */
  else
    qdigits = len1-len2+scale+1;
}

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale, scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
{
  /* Normalize */
  norm = 10 / ((int)*n2ptr + 1);
  if (norm != 1)
  {
    _one_mult (num1, len1+scale1+extra+1, norm, num1);
    _one_mult (n2ptr, len2, norm, n2ptr);
  }

  /* Initialize divide loop. */
  qdig = 0;
  if (len2 > len1)
    qptr = (unsigned char *) qval->n_value+len2-len1;
  else
    qptr = (unsigned char *) qval->n_value;

  /* Loop */
  while (qdig <= len1+scale-len2)
  {
    /* Calculate the quotient digit guess. */
    if (*n2ptr == num1[qdig])
      qguess = 9;
    else
      qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;
  }
/* Test qguess. */
if (n2ptr[1]*qguess >
    (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
    + num1[qdig+2])
{
    qguess--;  
/* And again. */
    if (n2ptr[1]*qguess >
        (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
        + num1[qdig+2])
    qguess--;  
}

/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)
{
    *mval = 0;
    _one_mult (n2ptr, len2, qguess, mval+1);
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) mval+len2;
    for (count = 0; count < len2+1; count++)
    {
        val = (int) *ptr1 - (int) *ptr2-- - borrow;
        if (val < 0)
        {
            val += 10;
            borrow = 1;
        }
        else
            borrow = 0;
        *ptr1-- = val;
    }
    }/* Test for negative result. */
if (borrow == 1)
{
    qguess--;  
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
    {
        val = (int) *ptr1 + (int) *ptr2-- + carry;
        if (val > 9)
        {
            val -= 10;
        }
        else
            borrow = 0;
        *ptr1-- = val;
    }
    }
carry = 1;
}
else
    carry = 0;
    *ptr1-- = val;
}
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
}

/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;
}
)
/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0; /* Everything is OK. */
)
/* Division and modulo for numbers. This computes both NUM1 / NUM2 and NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT is NULL then that store will be omitted. */

int
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;
    int scale;
{
    bc_num quotient = NULL;
    bc_num temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero (num2)) return -1;
/* Calculate final scale. */
rscale = MAX (num1->n_scale, num2->n_scale+scale);
bc_init_num(&temp);

/* Calculate it. */
bc_divide (num1, num2, &temp, scale);
if (quot)
    quotient = bc_copy_num (temp);
bc_multiply (temp, num2, &temp, rscale);
bc_sub (num1, temp, rem, rscale);
bc_free_num (&temp);

if (quot)
{
    bc_free_num (quot);
    *quot = quotient;
}

return 0;/* Everything is OK. */
}

/* Modulo for numbers. This computes NUM1 % NUM2 and puts the
result in RESULT. */

int
bc_modulo (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD. The result is
placed in RESULT. If a EXPO is not an integer,
only the integer part is used. */

int
bc_raisemod (base, expo, mod, result, scale)
    bc_num base, expo, mod, *result;
    int scale;
{
    bc_num power, exponent, parity, temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero(mod)) return -1;
    if (bc_is_neg(expo)) return -1;
/* Set initial values. */
power = bc_copy_num (base);
exponent = bc_copy_num (expo);
temp = bc_copy_num (_one_);
bc_init_num(&parity);

/* Check the base for scale digits. */
if (base->n_scale != 0)
    bc_rt_warn ("non-zero scale in base");

/* Check the exponent for scale digits. */
if (exponent->n_scale != 0)
{
    bc_rt_warn ("non-zero scale in exponent");
    bc_divide (exponent, _one_, &exponent, 0); /*truncade */
}

/* Check the modulus for scale digits. */
if (mod->n_scale != 0)
    bc_rt_warn ("non-zero scale in modulus");

/* Do the calculation. */
rscale = MAX(scale, base->n_scale);
while ( !bc_is_zero(exponent) )
{
    (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
    if ( !bc_is_zero(parity) )
    {
        bc_multiply (temp, power, &temp, rscale);
        (void) bc_modulo (temp, mod, &temp, scale);
    }
    bc_multiply (power, power, &power, rscale);
    (void) bc_modulo (power, mod, &power, scale);
}

/* Assign the value. */
bc_free_num (&power);
bc_free_num (&exponent);
bc_free_num (result);
*result = temp;
return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT.
Maximum exponent is LONG_MAX. If a NUM2 is not an integer,
only the integer part is used. */
void
bc_raise (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    bc_num temp, power;
    long exponent;
    int rscale;
    int pwryscale;
    int calcscale;
    char neg;

    /* Check the exponent for scale digits and convert to a long. */
    if (num2->n_scale != 0)
        bc_rt_warn ("non-zero scale in exponent");
    exponent = bc_num2long (num2);
    if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
        bc_rt_error ("exponent too large in raise");

    /* Special case if exponent is a zero. */
    if (exponent == 0)
    {
        bc_free_num (result);
        *result = bc_copy_num (_one_);
        return;
    }

    /* Other initializations. */
    if (exponent < 0)
    {
        neg = TRUE;
        exponent = -exponent;
        rscale = scale;
    }
    else
    {
        neg = FALSE;
        rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
    }

    /* Set initial value of temp. */
    power = bc_copy_num (num1);
    pwryscale = num1->n_scale;
    while ((exponent & 1) == 0)
    {
        pwryscale = 2*pwryscale;
        bc_multiply (power, power, &power, pwryscale);
    }
exponent = exponent >> 1;
}
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
        calcscale = pwrscale + calcscale;
        bc_multiply (temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
}

/* Assign the value. */
if (neg)
{
    bc_divide (_one_, temp, result, rscale);
    bc_free_num (&temp);
}
else
{
    bc_free_num (result);
    *result = temp;
    if ((*result)->n_scale > rscale)
        (*result)->n_scale = rscale;
    bc_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits
after the decimal place. */

int
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
    int rscale, cmp_res, done;
    int cscale;
    bc_num guess, guess1, point5, diff;

    /* Initial checks. */
    cmp_res = bc_compare (*num, _zero_);
if (cmp_res < 0)
    return 0;/* error */
else
{
    if (cmp_res == 0)
    {
        bc_free_num (num);
        *num = bc_copy_num (_zero_);
        return 1;
    }
}

cmp_res = bc_compare (*num, _one_);
if (cmp_res == 0)
{
    bc_free_num (num);
    *num = bc_copy_num (_one_);
    return 1;
}

/* Initialize the variables. */
rscale = MAX (scale, (*num)->n_scale);
bc_init_num(&guess);
bc_init_num(&guess1);
bc_init_num(&diff);
point5 = bc_new_num (1,1);
point5->n_value[1] = 5;

/* Calculate the initial guess. */
if (cmp_res < 0)
{
    /* The number is between 0 and 1. Guess should start at 1. */
    guess = bc_copy_num (_one_);
    cscale = (*num)->n_scale;
}
else
{
    /* The number is greater than 1. Guess should start at 10^(exp/2). */
    bc_int2num (&guess,10);

    bc_int2num (&guess1,(*num)->n_len);
    bc_multiply (guess1, point5, &guess1, 0);
    guess1->n_scale = 0;
    bc_raise (guess, guess1, &guess, 0);
    bc_free_num (&guess1);
    cscale = 3;
}
/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
    bc_divide (*num, guess, &guess, cscale);
    bc_add (guess, guess1, &guess, 0);
    bc_multiply (guess, point5, &guess, cscale);
    bc_sub (guess, guess1, &diff, cscale+1);
    if (bc_is_near_zero (diff, cscale))
    {
        if (cscale < rscale+1)
            cscale = MIN (cscale*3, rscale+1);
        else
            done = TRUE;
    }
}
/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess, _one_, num, rscale);
bc_free_num (&guess);
bc_free_num (&guess1);
bc_free_num (&point5);
bc_free_num (&diff);
return 1;
}

/* The following routines provide output for bcd numbers package
using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
    long  digit;
    struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";

/* A special output routine for "multi-character digits." Exactly
SIZE characters must be output for the value VAL. If SPACE is
non-zero, we must output one space before the number. OUT_CHAR
is the actual routine for writing the characters. */
void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
    char digits[40];
    int len, ix;

    if (space) (*out_char) (' ');
    sprintf (digits, "%ld", val);
    len = strlen (digits);
    while (size > len)
    {
        (*out_char) ('0');
        size--;
    }
    for (ix=0; ix < len; ix++)
        (*out_char) (digits[ix]);
}
/* Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR
   as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
{
    char *nptr;
    int index, fdigit, pre_space;
    stk_rec *digits, *temp;
    bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

    /* The negative sign if needed. */
    if (num->n_sign == MINUS) (*out_char) ('-');

    /* Output the number. */
if (bc_is_zero (num))
    (*out_char) ('0');
else
    if (o_base == 10)
        
        /* The number is in base 10, do it the fast way. */
        nptr = num->n_value;
        if (num->n_len > 1 || *nptr != 0)
            for (index=num->n_len; index>0; index--)
                (*out_char) (BCD_CHAR(*nptr++));
        else
            nptr++;

        if (leading_zero && bc_is_zero (num))
            (*out_char) ('0');

    /* Now the fraction. */
    if (num->n_scale > 0)
        
        /* special case ... */
        if (leading_zero && bc_is_zero (num))
            (*out_char) ('0');
        
        /* The number is some other base. */
        digits = NULL;
        bc_init_num (&int_part);
        bc_divide (num, _one_, &int_part, 0);
        bc_init_num (&frac_part);
        bc_init_num (&cur_dig);
        bc_init_num (&base);
        bc_sub (num, int_part, &frac_part, 0);
        /* Make the INT_PART and FRAC_PART positive. */
        int_part->n_sign = PLUS;
        frac_part->n_sign = PLUS;
        bc_int2num (&base, o_base);
        bc_init_num (&max_o_digit);
        bc_int2num (&max_o_digit, o_base-1);

        /* Get the digits of the integer part and push them on a stack. */
        while (!bc_is_zero (int_part))
{  
    bc_modulo (int_part, base, &cur_dig, 0);  
    temp = (stk_rec *) malloc (sizeof(stk_rec));  
    if (temp == NULL) bc_out_of_memory();  
    temp->digit = bc_num2long (cur_dig);  
    temp->next = digits;  
    digits = temp;  
    bc_divide (int_part, base, &int_part, 0);  
}

/* Print the digits on the stack. */  
if (digits != NULL)  
{  
    /* Output the digits. */  
    while (digits != NULL)  
    {  
        temp = digits;  
        digits = digits->next;  
        if (o_base <= 16)  
            (*out_char) (ref_str[(int) temp->digit]);  
        else  
            bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);  
        free (temp);  
    }  
}

/* Get and print the digits of the fraction part. */  
if (num->n_scale > 0)  
{  
    (*out_char) ('.');  
    pre_space = 0;  
    t_num = bc_copy_num (_one_);  
    while (t_num->n_len <= num->n_scale) {  
        bc_multiply (frac_part, base, &frac_part, num->n_scale);  
        fdigit = bc_num2long (frac_part);  
        bc_int2num (&int_part, fdigit);  
        bc_sub (frac_part, int_part, &frac_part, 0);  
        if (o_base <= 16)  
            (*out_char) (ref_str[fdigit]);  
        else  
            {  
                bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);  
                pre_space = 1;  
            }  
        bc_multiply (t_num, base, &t_num, 0);  
    }  
    bc_free_num (&t_num);  
}
/* Clean up. */
bc_free_num (&int_part);
bfc_free_num (&frac_part);
bfc_free_num (&base);
bfc_free_num (&cur_dig);
bfc_free_num (&max_o_digit);
}

/* Convert a number NUM to a long. The function returns only the integer
part of the number. For numbers that are too large to represent as
a long, this function returns a zero. This can be detected by checking
the NUM for zero after having a zero returned. */

long
bc_num2long (num)
bc_num num;
{
    long val;
    char *nptr;
    int index;

    /* Extract the int value, ignore the fraction. */
    val = 0;
    nptr = num->n_value;
    for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
        val = val*BASE + *nptr++;

    /* Check for overflow. If overflow, return zero. */
    if (index>0) val = 0;
    if (val < 0) val = 0;

    /* Return the value. */
    if (num->n_sign == PLUS)
        return (val);
    else
        return (-val);
}

/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num (num, val)
bc_num *num;
    int val;
{
    char buffer[30];
    char *bptr, *vptr;
int ix = 1;
char neg = 0;

/* Sign. */
if (val < 0)
{
   neg = 1;
   val = -val;
}

/* Get things going. */
bptr = buffer;
*bptr++ = val % BASE;
val = val / BASE;

/* Extract remaining digits. */
while (val != 0)
{
   *bptr++ = val % BASE;
   val = val / BASE;
   ix++; /* Count the digits. */
}

/* Make the number. */
bc_free_num (num);
*num = bc_new_num (ix, 0);
if (neg) (*num)->n_sign = MINUS;

/* Assign the digits. */
vptr = (*num)->n_value;
while (ix-- > 0)
   *vptr++ = *--bptr;

/* Convert a numbers to a string. Base 10 only. */
char
*num2str (num)
   bc_num num;
{
char *str, *sptr;
char *nptr;
int index, signch;

/* Allocate the string memory. */
signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
if (num->n_scale > 0)
   str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
else  
    str = (char *) malloc (num->n_len + 1 + signch);
if (str == NULL) bc_out_of_memory();

/* The negative sign if needed. */
sptr = str;
if (signch) *sptr++ = '-';

/* Load the whole number. */
nptr = num->n_value;
for (index=num->n_len; index>0; index--)
    *sptr++ = BCD_CHAR(*nptr++);

/* Now the fraction. */
if (num->n_scale > 0)
    {
        *sptr++ = '.';
        for (index=0; index<num->n_scale; index++)
            *sptr++ = BCD_CHAR(*nptr++);
    }

/* Terminate the string and return it! */
*sptr = '\0';
return (str);

*/ Convert strings to bc numbers. Base 10 only.*/

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

    /* Prepare num. */
    bc_free_num (num);

    /* Check for valid number and count digits. */
    ptr = str;
    digits = 0;
    strscale = 0;
    zero_int = FALSE;
    if ( (*ptr == '+') || (*ptr == '-')) ptr++; /* Sign */
    while (*ptr == '0') ptr++;/* Skip leading zeros. */
    while (isdigit((int)*ptr)) ptr++, digits++;/* digits */
if (*ptr == '.') ptr++; /* decimal point */
while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
if ((*ptr != '0') && (digits + strscale == 0))
{
    *num = bc_copy_num (_zero_);
    return;
}

/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
{
    zero_int = TRUE;
    digits = 1;
}
*num = bc_new_num (digits, strscale);

/* Build the whole number. */
ptr = str;
if (*ptr == '.')
{
    (*num)->n_sign = MINUS;
    ptr++;
}
else
{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
    digits = 0;
}
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);

/* Build the fractional part. */
if (strscale > 0)
{
    ptr++; /* skip the decimal point! */
    for (;strscale > 0; strscale--)
        *nptr++ = CH_VAL(*ptr++);
}
}
/* pn prints the number NUM in base 10. */

static void
out_char (int c)
{
putchar(c);
}

void
pn (num)
  bc_num num;
{
  bc_out_num (num, 10, out_char, 0);
  out_char ('\n');
}

/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
  char *name;
  unsigned char *num;
  int len;
{
  int i;
  printf ("%s=", name);
  for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));
  printf ("\n");
}

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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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
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* Alex Grnholm
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text

ca-bundle.crt -- Bundle of CA Root Certificates

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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

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

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(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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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean:
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ./$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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That's all there is to it!
1.91 python 3.7.3

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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Sockets
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:func:`getnameinfo`, which are coded in separate source files from the WIDE

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
-------------------------

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

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

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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cfuhash
-------

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#
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#! /bin/sh
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33. [36]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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1.98 tdb 1.42.9

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

If such an object file uses only numerical parameters, data
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/* tdate_parse.h - parse string dates into internal form, stripped-down version
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/* phf - cracker trap
 **
 ** Old distributions of the NCSA and Apache web servers included a
 ** version of the phf program that had a bug. The program could
 ** easily be made to run arbitrary shell commands. There is no real
 ** legitimate use for phf, so any attempts to run it must be considered
 ** to be attacks. Accordingly, this version of phf logs the attack
 ** and then returns a page indicating that phf doesn't exist.
 **
 **
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* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/cgi-src/Makefile
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/extras/syslogtocern
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/extras/Makefile
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/* fdwatch.h - header file for fdwatch package
**
** This package abstracts the use of the select()/poll()/kqueue() system calls. The basic function of these calls is to watch a set
** of file descriptors for activity. select() originated in the BSD world,
** while poll() came from SysV land, and their interfaces are somewhat different. fdwatch lets you write your code to a single interface,
** with the portability differences hidden inside the package.
**
** Usage is fairly simple. Call fdwatch_get_nfiles() to initialize
** the package and find out how many file descriptors are available.
** Then each time through your main loop, call fdwatch_clear(), then
** fdwatch_add_fd() for each of the descriptors you want to watch,
** then call fdwatch() to actually perform the watch. After it returns
** you can check which descriptors are ready via fdwatch_check_fd().
**
** If your descriptor set hasn't changed from the last time through
** the loop, you can skip calling fdwatch_clear() and fdwatch_add_fd()
** to save a little CPU time.
**
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/* match.c - simple shell-style filename matcher
**
** Only does ? * and **, and multiple patterns separated by |. Returns 1 or 0.
**
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/* libhttpd.c - HTTP protocol library

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* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/thttpd.8
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/extras/syslogtocern.8
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bzip2/libbzip2 version 1.0.2 of 30 December 2001

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1.118 at 3.1.15

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This is the Debian GNU/Linux prepackaged version of the deferred
execution scheduler called at.
This package was debianized by its author Thomas Koenig
<ig25@rz.uni-karlsruhe.de>, taken over and re-packaged first by Martin
Schulze <joey@debian.org> and then by Siggy Brentrup <bsb@winnegan.de>,
and then taken over by Ryan Murray <rmurray@debian.org>.

In August 2009 the upstream development and Debian packaging were taken over
by Ansgar Burchardt <ansgar@debian.org> and Cyril Brulebois <kibi@debian.org>.

This may be considered the experimental upstream source, and since there
doesn't seem to be any other upstream source, the only upstream source.

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parsetime.pl:

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1.119 icu 53

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

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

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

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

## End BSD-specific setup
1.120 curl 7.37.1
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gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmlib32-linux/lib32-curl/7.37.1-r0/curl-
7.37.1/src/tool_hugehelp.c
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:MaxApplZone();
:MoreMasters();

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* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cb_wrt.c
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* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_dbg.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_operhlp.h
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7.37.1/src/mkhelp.pl
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-
gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-
7.37.1/src/Makefile.vc9
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-
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7.37.1/src/Makefile.vc8
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-
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7.37.1/src/Makefile.vc6
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-
gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-
7.37.1/src/Makefile.vc10

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* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-
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  7.37.1/src/tool_dirhie.c
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  7.37.1/src/tool_formparse.c
No license file was found, but licenses were detected in source scan.

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* KIND, either express or implied.
*
***************************************************************************/

Found in path(s):
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-
gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmlib32-linux/lib32-curl/7.37.1-r0/curl-
7.37.1/src/tool_version.h
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-
gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmlib32-linux/lib32-curl/7.37.1-r0/curl-
7.37.1/src/macos/src/macos_main.cpp

1.121 glibc 2.20
1.121.1 Available under license :
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center Version 2.1, February 1999

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c hence no sectioning command or @node.

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

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

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

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

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

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

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@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
@end enumerate
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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

@item
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copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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Library` must include any data and utility programs needed for
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Version 2.1, February 1999

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1.122 tcp-wrappers 7.6
1.122.1 Available under license:

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1.123 vim 7.4.481
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*uganda.txt*  For Vim version 8.2. Last change: 2019 Dec 07

VIM REFERENCE MANUAL  by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*

SUMMARY

*iccf* *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

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

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

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2) The modified Vim must be distributed in one of the following five ways:
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b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

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4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

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If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

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

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

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

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

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

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

*donate*

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

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

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

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774  
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.  
Check the ICCF web site for the latest information:  
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.  
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:  
The e-mail address for sending the money to is:  
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

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

Address to send checks to:  
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Finsterruetihof 1  
8134 Adliswil  
Switzerland

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* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.129 zlib 1.2.3

1.129.1 Available under license:
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1.130 zlib 1.2.8
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and it's recent overhaul

Christian Theiss
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@novacom.p.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

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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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for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

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

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for the tda1004x frontend driver, and various bugfixes

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

Vadim Catana <skystar@moldova.cc>
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for his work on the budget drivers, the demux code,
the module unloading problems, ...

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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 Activey budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

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

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

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for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <smkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

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

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

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

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)
/* 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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```
@smallexample
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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
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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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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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

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

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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   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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      (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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source code from the same place satisfies the requirement to
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at InntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.
Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelssohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

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1.139 iproute 3.16.0
1.139.1 Available under license:

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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1989
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1.140 cracklib 2.9.1
1.140.1 Available under license :

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

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

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

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

-- Nathan

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

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

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

Attachments: Message as HTML

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isnt the place of a library to dictact to application writes what license they should be using.
thus LGPL-2.1 enters to fill this void.
=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

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

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> 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
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 SMTP/VC(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 SMTP/VC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1icOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flopped
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFE6E9F@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-ArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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 *
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MessagePack [http://msgpack.org] is an efficient binary serialization format. It lets you exchange data among multiple languages like JSON but it's faster and smaller. For example, small integers (like flags or error code) are encoded into a single byte, and typical short strings only require an extra byte in addition to the strings themselves.

If you ever wished to use JSON for convenience (storing an image with metadata) but could not for technical reasons (binary data, size, speed...), MessagePack is a perfect replacement.

```ruby
require 'msgpack'
msg = [1,2,3].to_msgpack #=> "\x93\x01\x02\x03"
MessagePack.unpack(msg) #=> [1,2,3]
```

Use RubyGems to install:

gem install msgpack

or build msgpack-ruby and install:

```bash
bundle
rake
gem install --local pkg/msgpack
```

= Use cases

* Store objects efficiently serialized by msgpack on memcached or Redis
* In fact Redis supports msgpack in EVAL-scripts [http://redis.io/commands/eval]
* Upload data in efficient format from mobile devices such as smartphones
* MessagePack works on iPhone/iPad and Android. See also Objective-C [https://github.com/msgpack/msgpack-objectivec] and Java [https://github.com/msgpack/msgpack-java] implementations
* Design a portable protocol to communicate with embedded devices
* Check also Fluentd [http://fluentd.org/] which is a log collector which uses msgpack for the log format (they say it uses JSON but actually it's msgpack, which is compatible with JSON)
* Exchange objects between software components written in different languages
* You'll need a flexible but efficient format so that components exchange objects while keeping compatibility

= Portability
MessagePack for Ruby should run on x86, ARM, PowerPC, SPARC and other CPU architectures.

And it works with MRI (CRuby) and Rubinius. Patches to improve portability is highly welcomed.

= Serializing objects

Use *MessagePack.pack* or *to_msgpack*:

```ruby
require 'msgpack'
msg = MessagePack.pack(obj) # or
msg = obj.to_msgpack
```

== Streaming serialization

Packer provides advanced API to serialize objects in streaming style:

```ruby
# serialize a 2-element array [e1, e2]
pk = MessagePack::Packer.new(io)
pk.write_array_header(2).write(e1).write(e2).flush
```


= Deserializing objects

Use *MessagePack.unpack*:

```ruby
require 'msgpack'
obj = MessagePack.unpack(msg)
```

== Streaming deserialization

Unpacker provides advanced API to deserialize objects in streaming style:

```ruby
# deserialize objects from an IO
u = MessagePack::Unpacker.new(io)
u.each do |obj|
  # ...
end
```

or event-driven style which works well with EventMachine:

```ruby
# event-driven deserialization
def on_read(data)
  @u ||= MessagePack::Unpacker.new
  @u.feed_each(data) { |obj|
```
# ...
}
end


= Buffer API

MessagePack for Ruby provides a buffer API so that you can read or write data by hand, not via Packer or Unpacker API.

This [MessagePack::Buffer][http://ruby.msgpack.org/MessagePack/Buffer.html] is backed with a fixed-length shared memory pool which is very fast for small data (<= 4KB), and has zero-copy capability which significantly affects performance to handle large binary data.

= How to build and run tests

Before building msgpack, you need to install bundler and dependencies.

```
    gem install bundler
    bundle install
```

Then, you can run the tasks as follows:

* Build
```
    bundle exec rake build
```

* Run tests
```
    bundle exec rake spec
```

* Generating docs
```
    bundle exec rake doc
```

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 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
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1.147 telnetd 1.9.2

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* 
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* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be> 
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be> 
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### 1.155 perl 5.14.2

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The End

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

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

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

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

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

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

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

  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'"

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987\d{4,}/i
    or die "Copyright statement not found in perl -v output '$output'";

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1.157 lvm2 2.02.97

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1.158 linux-kernel 2.6.10

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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.
   *
* 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
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* 
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* 
* M. Welsh, 6 July 1996
* 
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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

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

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

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

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

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#ifndef X86_BSD_NAT_H
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#include "x86-nat.h"

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

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

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

public:
    #ifdef HAVE_PT_GETDBREGS
    void mourn_inferior () override
    {
        x86_cleanup_dregs ();
        base_class::mourn_inferior ();
    }
    #endif /* HAVE_PT_GETDBREGS */
};
#endif /* x86-bsd-nat.h */

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@end enumerate

@end enumerate

@end example

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#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

#include "x86-bsd-nat.h"
/* Helper functions. See definitions. */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache, int regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache, int regnum);

/* A prototype *BSD/AMD64 target. */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
    void fetch_registers (struct regcache *regcache, int regnum) override
    { amd64bsd_fetch_inferior_registers (regcache, regnum); }

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

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

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That's all there is to it!
/* Native-dependent code for modern i386 BSD's.

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along with this program. If not, see <http://www.gnu.org/licenses/>. */

#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
       int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache,
       int regnum);

/* A prototype *BSD/i386 target. */
template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
    public:
        void fetch_registers (struct regcache *regcache, int regnum) override
            { i386bsd_fetch_inferior_registers (regcache, regnum); }  
        void store_registers (struct regcache *regcache, int regnum) override
            { i386bsd_store_inferior_registers (regcache, regnum); }  
};

#endif /* i386-bsd-nat.h */
BEGIN
   FS="";
   print "/* Do not modify this file!! */
    "_*- buffer-read-only: t -* vi"
    ":set ro:"
    print " It is created automatically by copying.awk."
    print " Modify copying.awk instead. <= */";
    print 
    print "#include \\defs.h"  
    print "#include \\command.h"  
    print "#include \\gdbcmd.h"

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print "static void show_copying_command (const char *, int);"
print "static void show_warranty_command (const char *, int);"

print "static void show_copying_command (const char *ignore, int from_tty)"
print 
print "static void show_warranty_command (const char *ignore, int from_tty)"
print 
print "void _initialize_copying (void)"
print 
print "add_cmd ("copying", no_set_class, show_copying_command,"
print "Conditions for redistributing copies of GDB.");"
print "add_cmd ("warranty", no_set_class, show_warranty_command,"
print "END OF TERMS AND CONDITIONS")
print "_initialize_copying (void)";
print " _("Various kinds of warranty you do not have."),";
print " &showlist);
print " /* For old-timers, allow "info copying", etc. */;
print " add_info ("copying", show_copying_command,);
print " _("Conditions for redistributing copies of GDB."));";
print " add_info ("warranty", show_warranty_command,;
print " _("Various kinds of warranty you do not have."));";
print " }
/* BSD Kernel Data Access Library (libkvm) interface.

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

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

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

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

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

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

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

/* The libkvm target. */

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

class bsd_kvm_target final : public process_stratum_target
{
public:
    bsd_kvm_target () = default;

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

    void close () override;

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

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

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

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

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

target_preopen (from_tty);

  if (arg)
    {
      char *temp;

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

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

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

add_thread_silent (bsd_kvm_ptid);
inferior_ptid = bsd_kvm_ptid;

target_fetch_registers (get_current_regcache (), -1);

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

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

inferior_ptid = null_ptid;
discard_all_inferiors ();
}

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

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

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

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

    default:
        return TARGET_XFER_E_IO;
    }

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

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

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

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

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

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
    struct nlist nl[2];
if (bsd_kvm_paddr)
{
    bsd_kvm_fetch pcb (regcache, bsd_kvm_paddr);
    return;
}

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

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

if (nl[0].n_value != 0)
{
    /* Found dumppcb. If it contains a valid context, return
       immediately. */
    if (bsd_kvm_fetch pcb (regcache, (struct pcb *) nl[0].n_value))
        return;
}

/* Traditional BSD kernels have a process proc0 that should always
   be present. The address of proc0's PCB is stored in the variable
   "proc0paddr". */
memset (nl, 0, sizeof nl);
nl[0].n_name = ".proc0paddr";

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

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

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

    bsd_kvm_fetch pcb (regcache, paddr);
    return;
}

#ifdef HAVE_STRUCT_THREAD_TD_PCB
/* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer
   lives in `struct proc' but in `struct thread'. The `struct
memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

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

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

        /* Found thread0. */
        nl[0].n_value += offsetof (struct thread, td_pcb);

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

        bsd_kvm_fetch_pcb (regcache, paddr);
        return;
    }
#endif

/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));
}

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

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

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

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

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

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

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

target_fetch_registers (get_current_regcache (), -1);

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

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

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

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

  target_fetch_registers (get_current_regcache (), -1);

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

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

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
  static char buf[64]:

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xsnprintf (buf, sizeof buf, "<kvm>");
return buf;
}

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

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

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);

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

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

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

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

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

bsd_kvm_ptid = ptid_t (1, 1, 0);
}

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

<program> Copyright (C) <year> <name of author>
import datetime
import os
import os.path
import subprocess

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

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

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
update_cmd += update_list

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

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

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

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

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

fd = open(filename)

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

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

    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...
    if MULTIPLE_COPYRIGHT_HEADERS:
        print
        print("\033[31m"
              "REMINDER: Multiple copyright headers must be updated by hand:
              "033[0m")
        for filename in MULTIPLE_COPYRIGHT_HEADERS:
            print " ", filename
    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \
              "033[0m"
        for filename in BY_HAND:
            print " ", filename

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

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

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

# The list of files to update by hand.
BY_HAND = ( # Nothing at the moment :-).
)

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

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = ( #
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb/gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
if __name__ == "__main__":
    main()

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Version 2, June 1991

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

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1.171 kerberos 3.3
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```
cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gsssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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1.172 lapack 3.5.0 2ubuntu1

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Local Variables:
ispell-local-pdict: "ispell-dict"
End:
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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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**1.178 libgpg-error 1.12**

**1.178.1 Available under license :**

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in the event an application does not supply such function or
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(For example, a function in a library to compute square roots has
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application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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1.181 libxml 0.18.3.2

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1.182 augeas 1.2.0

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

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

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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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1.188 libxml 2.9.4

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1.190 libksba 1.3.0

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1.196 util-linux 2.24.0

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1.197 e2fsprogs 1.42.9

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

- trivial database library - private includes
-
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distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Theodore Ts'o
23-June-2007

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1.200 wireshark 1.10.14

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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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Description: Change location of license file in about dialog
Forwarded: not-needed
Author: Frederic Peters <fpeters@debian.org>

--- a/ui/qt/about_dialog.cpp
+++ b/ui/qt/about_dialog.cpp
@@ -335,7 +335,7 @@
 #if defined(_WIN32)
     f_license.setFileName(get_datafile_path("COPYING.txt"));
 #else
-    f_license.setFileName(get_datafile_path("COPYING");
+    f_license.setFileName(get_datafile_path("ABOUT.GPL");
 #endif

     f_license.open(QFile::ReadOnly | QFile::Text);
Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
========================================================================
1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required
-----------------------------------------------
Wireshark requires a number of additional programs to function. Install the latest versions of the following programs before compiling:

The easiest way to install these is by using your operating system's ports or packages system. If you prefer to build from source, the programs can be found at the following sites:

- **glib 2.32 or later:**
  - ftp.gnome.org:/pub/gnome/sources/glib/

- **pkgconfig:**
  - http://pkgconfig.freedesktop.org/releases/

- **python 3.4 or later:**
  - https://www.python.org/downloads/source/

If you want to use the Wireshark GUI, install one or both of these toolkits:

- **Qt 5.2 or later:**
  - http://download.qt-project.org/official_releases/qt/

(These programs may require additional dependencies)

Additional programs can be used to enhance Wireshark's functionality. These can be found by typing ./configure --help or looking at the output at the end of running the configure script.

2. Compiling Wireshark
-----------------------
To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

```
./configure
make
make install
```

The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement
-------------------------------------------
In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the
Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

```
ls -l /dev/bpf*
```

You should see one or more bpf devices listed similar to this:

```
crw-------  1 root  wheel    0,  90 Aug 10 21:05 /dev/bpf0
crw-------  1 root  wheel    0,  91 Aug 10 21:05 /dev/bpf1
```

Packet-capturing programs will pick the first bpf device that’s not in use. Recent versions of most BSDs will create bpf devices as needed, so you don’t have to configure the number of devices that will be available.

4. Running wireshark as a non-root user
-------------------------------------------
Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s).

If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system’s documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

```
[localrules=10]
add path "bpf*" {mode and permissions}
```

where "mode and permissions" can include clauses such as

```
mode {octal permissions}
```

to set the permissions on the device (e.g., "mode 0660" to set the permissions to rw-rw-r--),

```
user {user}
```

to set the user who owns the device, or
group {group}

to set the group that owns the device and adding a line such as

devfs_system_ruleset=localrules

to /etc/rc.conf. For example, an /etc/devfs.rules file with

[localrules=10]
add path 'bpf*' mode 0660 group wheel

will grant read and write permissions on all BPF devices to all users in
the "wheel" group.

#!/usr/bin/env python
# Copyright (c) 2013 The Chromium Authors. All rights reserved.
#
# SPDX-License-Identifier: BSD-3-Clause
#
"""Makes sure that all files contain proper licensing information."""

import optparse
import os.path
import subprocess
import sys

def PrintUsage():
    print("Usage: python checklicenses.py [--root <root>] [tocheck]
--root   Specifies the repository root. This defaults to "." relative
to the script file. This will be correct given the normal location
of the script in "<root>/tools".

--ignore-suppressions  Ignores path-specific license whitelist. Useful when
trying to remove a suppression/whitelist entry.

tocheck  Specifies the directory, relative to root, to check. This defaults
to "." so it checks everything.

Examples:
python checklicenses.py
python checklicenses.py --root ~/chromium/src third_party"")

WHITELISTED_LICENSES = [
    'BSD',
    'BSD (2 clause)',
    'BSD (2 clause) GPL (v2 or later)']
'BSD (3 clause)',
'GPL (v2 or later)',
'GPL (v3 or later) (with Bison parser exception)',
'TSC',
'TSC GPL (v2 or later)',
'LGPL (v2 or later)',
'LGPL (v2.1 or later)',
'MIT/X11 (BSD like)',
'Public domain',
'Public domain GPL (v2 or later)',
'Public domain MIT/X11 (BSD like)',
'zlib/libpng',
'zlib/libpng GPL (v2 or later)',

PATH_SPECIFIC_WHITELISTED_LICENSES = {
    'caputils/airpcap.h': [
        'BSD-3-Clause',
    ],
    'wsutil/strnatcmp.c': [
        'Zlib',
    ],
    'wsutil/strnatcmp.h': [
        'Zlib',
    ],
    'dtds': [
        'UNKNOWN',
    ],
    'diameter/dictionary.dtd': [
        'UNKNOWN',
    ],
    'wimaxasncp/dictionary.dtd': [
        'UNKNOWN',
    ],
    'doc/': [
        'UNKNOWN',
    ],
    'docbook/custom_layer_chm.xsl': [
        'UNKNOWN',
    ],
    'docbook/custom_layer_single_html.xsl': [
        'UNKNOWN',
    ],
    'docbook/ws.css': [
        'UNKNOWN',
    ],
    'fix': [null]
Open Source Used In Nexus 7000 Series Switches 8.4(6) 2827

'UNKNOWN',

'wsutil/g711.c': [ 'UNKNOWN',

'packaging/macosx': [ 'UNKNOWN',

'epan/except.c': [ 'UNKNOWN',

'epan/except.h': [ 'UNKNOWN',

'epan/dtd_grammar.h': [ 'UNKNOWN',

'epan/dfilter/grammar.h': [ 'UNKNOWN',

'epan/dfilter/grammar.c': [ 'UNKNOWN',

'epan/dissectors/packet-ieee80211-radiotap-iter': [ # Using ISC license only
    'ISC GPL (v2)' ]

'plugins/mate/mate_grammar.h': [ 'UNKNOWN',

'version.h': [ 'UNKNOWN',

'epan/dissectors/pidl/idl_types.h': [ 'UNKNOWN',

'epan/dissectors/pidl/mapi/request.cnf.c': [ 'UNKNOWN',

# Special IDL license that appears to be compatible as far as I (not a
# lawyer) can tell. See
# https://www.wireshark.org/lists/wireshark-dev/201310/msg00234.html

# Written by Ronnie Sahlberg and correctly licensed, but cannot include
# a license header despite the file extension as they need to be
# parsed by the pidl tool

'epan/dissectors/pidl/mapi/request.cnf.c': [ 'UNKNOWN',

]
"epan/dissectors/pidl/mapi/response.cnf.c": [  'UNKNOWN',
],
# The following tools are under incompatible licenses (mostly GPLv3 or  
# GPLv3+), but this is OK since they are not actually linked into Wireshark  
'tools/pidl': [  'UNKNOWN',
],  
'tools/lemon': [  'UNKNOWN',
],  
'tools/licensecheck.pl': [  'GPL (v2)'  
],
# Generated files for GTK pixbuf binary bundling  
'ui/gtk/wireshark-gresources.h': [  'UNKNOWN',
],  
'ui/gtk/wireshark-gresources.c': [  'UNKNOWN',
],
}

```python
def check_licenses(options, args):
    # Figure out which directory we have to check.
    if len(args) == 0:
        # No directory to check specified, use the repository root.
        start_dir = options.base_directory
    elif len(args) == 1:
        # Directory specified. Start here. It's supposed to be relative to the  
        # base directory.
        start_dir = os.path.abspath(os.path.join(options.base_directory, args[0]))
    else:
        # More than one argument, we don't handle this.
        PrintUsage()
        return 1

    print("Using base directory: %s" % options.base_directory)
    print("Checking: %s" % start_dir)
    print("=")

    licensecheck_path = os.path.abspath(os.path.join(options.base_directory,  
        'tools',  
        'licensecheck.pl'))

    licensecheck = subprocess.Popen([licensecheck_path,  
        '-l', '150',  
        '-r', start_dir],
"
```
stdout=subprocess.PIPE,
stderr=subprocess.PIPE)
stdout, stderr = licensecheck.communicate()
if sys.version_info[0] >= 3:
    stdout = stdout.decode('utf-8')
    stderr = stderr.decode('utf-8')
if options.verbose:
    print('----------- licensecheck stdout -----------')
print(stdout)
    print('--------- end licensecheck stdout ---------')
if licensecheck.returncode != 0 or stderr:
    print('----------- licensecheck stderr -----------')
print(stderr)
    print('--------- end licensecheck stderr ---------')
print("\nFAILED\n")
return 1

success = True
exit_status = 0
for line in stdout.splitlines():
    filename, license = line.split(':', 1)
    filename = os.path.relpath(filename.strip(), options.base_directory)

    # All files in the build output directory are generated one way or another.
    # There's no need to check them.
    if filename.startswith('out/') or filename.startswith('sconsbuild/):
        continue

    # For now we're just interested in the license.
    license = license.replace("*No copyright*", ").strip()

    # Skip generated files.
    if 'GENERATED FILE' in license:
        continue

    # Support files which provide a choice between licenses.
    if any(item in WHITELISTED_LICENSES for item in license.split(';')):
        continue

    if not options.ignore_suppressions:
        found_path_specific = False
        for prefix in PATH_SPECIFIC_WHITELISTED_LICENSES:
            if (filename.startswith(prefix) and
                license in PATH_SPECIFIC_WHITELISTED_LICENSES[prefix]):
                found_path_specific = True
                break
    if found_path_specific:
        continue
reason = '"%s' has non-whitelisted license '%s'" % (filename, license)
success = False
print(reason)
exit_status = 1

if success:
    print("unSUCCESS\n")
    return 0
else:
    print("unFAILED\n")
    return exit_status

def main():
default_root = os.path.abspath(  
    os.path.join(os.path.dirname(__file__), '..'))
option_parser = optparse.OptionParser()
option_parser.add_option('--root', default=default_root,
    dest='base_directory',
    help='Specifies the repository root. This defaults to 
    "../.." relative to the script file, which will normally be 
    the repository root.')
option_parser.add_option('-v', '--verbose', action='store_true',
    default=False, help='Print debug logging')
option_parser.add_option('--ignore-suppressions',
    action='store_true',
    default=False,  
    help='Ignore path-specific license whitelist.')
options, args = option_parser.parse_args()
return check_licenses(options, args)

if '__main__' == __name__:
sys.exit(main())

/* <filename>.c
* Wireshark - Network traffic analyzer
* By Gerald Combs <gerald@wireshark.org>
* Copyright 1998 Gerald Combs
* 
* SPDX-License-Identifier: GPL-2.0-or-later
*/
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Wireshark
Source: https://www.wireshark.org/
Files-Excluded: debian
Files: *
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Comment: Wireshark and the "fin" logo are trademarks of Gerald Combs.
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2005-2009 Joost Yervante Damad <andete@debian.org>
2009-2017 Balint Reczey <balint@balintreczey.hu>
2017-     Balint Reczey <balint.reczey@canonical.com>
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1.201 openssl 1.0.1m

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Pentium Pro 200mhz
FreeBSD 2.1.5
gcc 2.7.2.2

SSLear 0.7.0 30-Jan-1997
built on Tue Apr 22 12:14:36 EST 1997
options:bn(64,32) md2(int) rc4(idk.int) des(ptr,risc1.16,long) idea(int) blowfish(ptr2)
C flags:gcc -DTERMIOS -D_ANSI_SOURCE -fomit-frame-pointer -O3 -m486 -Wall
The 'numbers' are in 1000s of bytes per second processed.

<table>
<thead>
<tr>
<th>type</th>
<th>8 bytes</th>
<th>64 bytes</th>
<th>256 bytes</th>
<th>1024 bytes</th>
<th>8192 bytes</th>
</tr>
</thead>
<tbody>
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<td>367.68k</td>
<td>499.09k</td>
<td>547.04k</td>
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<tr>
<td>md5</td>
<td>1924.98k</td>
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<td>rc4</td>
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<td>5949.97k</td>
<td>6182.43k</td>
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</table>

rsa  512 bits 0.010s
rsa 1024 bits 0.045s
rsa 2048 bits 0.260s
rsa 4096 bits 1.690s

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Motorolla 68020 20mhz, NetBSD

SSLeay 0.9.0t 29-May-1998
built on Fri Jun 5 12:42:23 EST 1998
options:bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)
C flags:gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN
The 'numbers' are in 1000s of bytes per second processed.

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<th>8 bytes</th>
<th>64 bytes</th>
<th>256 bytes</th>
<th>1024 bytes</th>
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1.203 pam 1.1.6

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

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

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

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<td>2001-now</td>
<td>PSF</td>
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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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MD5 message digest algorithm
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
   http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321;
   now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
   added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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zlib
----

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Jean-loup Gailly  Mark Adler
jloup@gzip.org  madler@alumni.caltech.edu

A. HISTORY OF THE SOFTWARE
==============

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.206 autogen 4.2.6p2

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1.214 openssh 6.2p2

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* 
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1.215 findutils 4.4.2

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1.216 recode 3.6

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*
* http://code.google.com/p/curve25519-donna/
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* 
* djb's sample implementation of curve25519 is written in a special assembly
* language called qhasm and uses the floating point registers.
* 
* This is, almost, a clean room reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
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*/

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

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1.232 zlib 1.2.1.1

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1.233 libdevmapper 1.02.76

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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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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
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