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1.7 kmod 25 r0

1.8 libmnl 1.0.4
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1.12 lxml 3.7.2

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1.13 tcp-dump 4.9.2

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The End

1.17 elfutils 0.173

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1.18 pam 1.3.0

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1.20 update-rc-d 0.8 r0

1.21 sg3-utils 1.44 r0
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1.23 protobuf 3.9.2 r0

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* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

1.24 libnsl2 1.2.0 r0

1.25 pycrypto 2.6.1
1.25.1 Available under license :

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1.27 openssh 7.8p1+git r0

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned intnfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM   POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif

#define INFTIM(-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif

#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#endif
#endif

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1.28 ipcalc 0.2.0 r0

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*  Function:    C-callable assembler functions for I/O.
*  Author:      Bill DeStein.
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*  Date        Description of Change                  BY
*  ---------   ---------------------                 ----
*  13-Aug-92   Created                               WCD
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1.34 shadow-securetty 4.6 r3

1.35 libevent 2.1.8 r0

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1.36 gdbm 1.14.1 1.0

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1.39 python3-cryptography 2.9 r0

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

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

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

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

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

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Mersenne Twister

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

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

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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`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
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Independent implementation of MD5 (RFC 1321).

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2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.
Asynchronous socket services

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

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UUencode and UUdecode functions

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

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

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

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test_epoll
----------

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Select kqueue
------------

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strtod and dtoa
---------------

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**1.41 python-setuptools 41.2.0 r0**

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1.42 boost 1.68.0 r0

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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

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

template <int i>
struct t { ;

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

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

int main() { }

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>License — Boost.HigherOrderFunctions 0.6 documentation</title>
<link rel="stylesheet" href="../_static/boostbook.css" type="text/css" />
<link rel="stylesheet" href="../_static/pygments.css" type="text/css" />

<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
  URL_ROOT: '../..',
  VERSION: '0.6',
  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
  HAS_SOURCE: true,
  SOURCELINK_SUFFIX: '.txt'
</script>
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</div>

</div>
</div>

<div class="footer" role="contentinfo">
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<td align="right"><div class="copyright-footer">
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</div></td>
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<head></head>
<body>
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(/home/zone/Downloads/boost_1_60_0/doc/html/intrusive/detail/property_traits.html#boost-intrusive-detail-property_traits.html:000)

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//
(/home/zone/Downloads/boost_1_60_0/doc/html/intrusive/detail/property_traits.html#boost-intrusive-detail-property_traits.html:100)

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

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

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;

/#home/zone/Downloads/boost_1_60_0/doc/html/intrusive/detail/property_traits.html#boost-intrusive-detail-property_traits.html:500)
using boost::move_detail::if_c;
using boost::move_detail::if_
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_
using boost::move_detail::true_
using boost::move_detail::false_
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

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

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

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

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

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static int test(...);

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

//

template <typename T, typename DefaultType>
struct boost_intrusive_default_type_##TNAME
{
    struct DefaultWrap { typedef DefaultType TNAME; }; 
}

typedef typename
::boost::intrusive::detail::if_c
    < boost_intrusive_has_type_##TNAME<T>::value 
      , T, DefaultWrap>::type::TNAME type; 
};
//

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

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME)  \
    INSTANTIATION_NS_PREFIX
        boost_intrusive_has_type_##TNAME< T >::value
//

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

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

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

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

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


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

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

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

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
    template <typename Type> \
    struct TRAITS_NAME \
    {
```
```cpp
struct BaseMixin {
    void FUNC_NAME();
};

struct Base : public Type, public BaseMixin { Base(); };

template <typename T, T t> class Helper{};

template <typename U> 
static ::boost::intrusive::detail::no_type test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); 
static ::boost::intrusive::detail::yes_type test(...);

static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0)));
};

//

//
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME,
FUNC_NAME) 
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME,
FUNC_NAME)

BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)

//namespace intrusive
//namespace boost

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
```
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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].

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library
will no longer implicitly include any MPL header. However there is an implicit conversion from
`integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types
in function overloads will still work as before.

[endsect]
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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All the value based traits in this library conform to MPL's requirements for an integral constant type.

Please note that these types no longer inherit implicitly include any MPL header. However there is an implicit conversion
from `<code class="computeroutput"><span class="identifier">integral_constant</span></code>` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

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</html>

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```cpp
var group__group_ext_mpl =
[   [ "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
   [ "list", "structboost_1_1mpl_1_1list.html", null ],
   [ "vector", "structboost_1_1mpl_1_1vector.html", null ]
];
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>

template <int i>
struct t [ ];

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

int main() { }
```

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

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#ifndef BOOST_CONFIG_HPP
  include <boost/config.hpp>
#endif
```

```cpp
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
  include <boost/config.hpp>
#endif
```
namespace boost {
namespace container { 
namespace dtl {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

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

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

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

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

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

template <typename C, typename K, typename R>
struct enable_if_transparent
    : boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{ };
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#ifndef BOOST_CONFIG_HPP
  # include <boost/config.hpp>
  #endif

  #if defined(BOOST_HAS_PRAGMA_ONCE)
    #pragma once
  #endif

  #include <cstdint>

  namespace boost {
    namespace interprocess {
      namespace ipcdetail {

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

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

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

        typedef true_  true_type;
        typedef false_ false_type;

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

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

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

      }
    }
  }

  #include <cstddef>

namespace boost { 
namespace interprocess { 
namespace ipcdetail { 

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

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

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

   typedef true_ true_type; 
   typedef false_ false_type; 

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

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

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

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

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

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

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

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

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

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

template<>

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

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

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

#!/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'^\s*\W*\(c\)? \s*copyright\s*\(c\)?\s*\d{4}(\s*\-\s*\d{4})?\s*\s+(?P<name>\w+)?\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)
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Adapters for Boost.MPL containers.

### Classes

<table>
<thead>
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<th>Class</th>
<th>Description</th>
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<td><code>boost::mpl::integral_c&lt; T, v &gt;</code></td>
<td>Adapter for IntegralConstants from the Boost.MPL.</td>
</tr>
<tr>
<td><code>boost::mpl::list&lt; T &gt;</code></td>
<td>Adapter for Boost.MPL lists.</td>
</tr>
<tr>
<td><code>boost::mpl::vector&lt; T &gt;</code></td>
<td>Adapter for Boost.MPL vectors.</td>
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</section>

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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 (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?) ) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlef(s(detlef@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (acg@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.) Boost Software License - Version 1.0 - August 17th, 2003

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Open Source Used In Polaris_MR_Releases 17.3.4  400

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--- end ---

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

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

struct state { };

template <int i>
struct t { };

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

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() { }

 fflush

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The header `\<boost/mp11/mpl.hpp\>`, when included, defines the
necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link:../../../../libs/mpl[MPL] sequences.

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

/*
 *
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* *
*/

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

// split_path is a small helper for outputting a path name,
// complete with a link to that path:

struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

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

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

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

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

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
```
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"\n"<html>
"<head>
"<title>Boost Licence Dependency Information</title>
if(m_module_list.size() == 1)
{
  os << " for " << *(m_module_list.begin());
}

os <<
"</title>
""</head>
""<body>
""<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
  os << " for " << *(m_module_list.begin());
}

os <<
"</H1>
""<H2>Contents</H2>
""<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
  os << "<a href="#summary">Licence Summary</a>
os << "<a href="#details">Licence Details</a>
while(i != j)
{
  // title:
  os << " <A href="#" " make_link_target(licenses.first[i->first].license_name)
  "">" << licenses.first[i->first].license_name << "</a>\n";
  ++i;
}

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

File Dependency Information

Input Information:

The following files were scanned for boost dependencies:

The Boost path was: Boost version is:

Output each license:

i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
// start with the summary:
//
os << "<a name="summary"></a><h2>Licence Summary</h2>
while(i != j)
{
  // title:
  os << "<H3>" << licenses.first[i->first].license_name << "</H3>";
  // license text:
  os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
  // Copyright holders:
  os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#"<<(licenses.first[i->first].license_name)<<("|)(see details)</a>";
  os << "</P></BLOCKQUOTE>\n";
++i;
}

// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
  // title:
  os << "<H3><A name=""<<(make_link_target(licenses.first[i->first].license_name)<<(">")<<(see details))</a>"<<(licenses.first[i->first].license_name)<<("</H3>";
  // license text:
  os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
  if(!m_bsl_summary_mode || (license_index >= 3))
  {
    // Copyright holders:
    os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
    holders:"; 
    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;
    }
// Files using this license:
    os << "This license applies to the following " << i->second.files.size() << " files:

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

    else
    {
        os << "This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).<p>
        os << "This license applies to " << i->second.files.size() << " files (list omitted for brevity).<p>
    }
    ++license_index;
    ++i;
}
//
// Output list of files not found to be under license control:
//
    os << "Files With No Recognisable Licence</h2>
    os << "The following " << m_unknown_licenses.size() << " files had no recognisable license information:<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 << "files)

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

The following \( m_{\text{cannot}_migrate}_t_{\text{to}_bsl}.size() \) files cannot be converted to the Boost Software License because we need the permission of more authors:

\[
i_2 = m_{\text{cannot}_migrate}_t_{\text{to}_bsl}.begin();
\]
\[
j_2 = m_{\text{cannot}_migrate}_t_{\text{to}_bsl}.end();
\]
\[
\text{while}(i_2 != j_2)
\]
\[
\{
\quad os \ll \text{split\_path}(m_{\text{boost}_path}, *i_2) \ll "\<br\>"
\quad ++i_2;
\}
\]
\[
os \ll "\</p>\</BLOCKQUOTE>";
\]

Authors we need for the BSL:

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

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

Copyright information:

```
std::map<std::string, std::set<fs::path, path_less>> ma_author_data;
while(ad != ead)
\{
    os \ll "\<tr>_\<td>_" \ll ad->first \ll "\</td>_\<td>_";
        std::set<fs::path, path_less>::const_iterator fi, efi;
        fi = ad->second.begin();
        efi = ad->second.end();
        while(fi != efi)
            \{
                os \ll \text{split\_path}(m_{\text{boost}_path}, *fi) \ll " ";
                ++fi;
            \}
        os \ll "\</td>_\<tr>\</n";
        ++ad;
    \}
```

File dependency information:
//
// File Dependency Information

os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
   bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
   bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
   bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
   bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
   typedef std::map<fs::path, std::pair<std::string, std::string>, path_less> ::const_iterator conv_iterator;
   conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
   while(i != ie)
   {
      bad_paths.insert(i->first);
      ++i;
   }
   fi = bad_paths.begin();
efi = bad_paths.end();
   os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
   os << split_path(m_boost_path, *fi);
   dep = m_dependencies.find(*fi);
   last_dep = m_dependencies.end();
   std::set<fs::path, path_less> seen_deps;
   if (dep != last_dep)
      while(true)
      {
         os << " -> ";
         if(fs::exists(m_boost_path / dep->second))
            os << split_path(m_boost_path, dep->second);
         else if(fs::exists(dep->second))
            os << split_path(fs::path(), dep->second);
         else
            os << dep->second.string();
         if(seen_deps.find(dep->second) != seen_deps.end())
            os << "<I>!(Circular dependency!)</I>";
         break; // circular dependency!!!
      }
}
seen_deps.insert(dep->second);
last_dep = dep;
    dep = m_dependencies.find(dep->second);
    if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
        break;
    }
    os << "\n";
    ++fi;
}
    os << "</pre></BLOCKQUOTE>\n";
    os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ":
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
[/============================================================================
Boost.Geometry (aka GGL, Generic Geometry Library)

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============================================================================/]

1.43 libxml-parser-perl 2.44 r0

1.44 procps 3.3.15 r0
1.44.1 Available under license :
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    Version 2, June 1991

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Preamble

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1.45 python-jsonpointer 2.0

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1.48 berkeley-db 5.3.28 r0

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1.50 e2fsprogs 1.43.8

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*/
Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
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#
# 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:$ (BSDLIB_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSDLIB_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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The most recent officially distributed version can be found at http://e2fsprogs.sourceforge.net. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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Open Source Used In Polaris_MR_Releases 17.3.4 447
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Version 2, June 1991

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1.62 python-pyserial 3.4 r0
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1.64 python-gevent 1.0b1 r0
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1.65 libpcre 8.42 r0

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Written by: Philip Hazel
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1.66 nghttp2 1.39.2 r0

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set yrange [0:]
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set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.67 libpcap 1.8.1

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Julian Seward, Cambridge, UK.
jseward@bzip.org
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that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
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modification of the work for the customer’s own use and reverse
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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
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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/* 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)
 * 
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 * 
 */
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M. Welsh, 6 July 1996

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1.77 iosionplatform 1

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1.78 python-chardet 3.0.4 r0

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Return-Path: spcecdt@armory.com
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id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
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John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

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

Chet Ramey

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

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu
-- End of excerpt from Chet Ramey

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Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
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>Hi.  I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0.  Thanks.

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

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

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1.82 libroxml 2.3.0 r0

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Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.
ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>` or `FlatBuffers <https://google.github.io/flatbuffers/>`, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
--------------

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation
--------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

/download

Changes
-------

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.
License
-------

The PyASN1 software is distributed under 2-clause BSD License.

Getting help
-------------


Books on ASN.1
--------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper
Open Source Used In Polaris_MR_Releases 17.3.4  810

book on the subject.

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ASN.1 library for Python
------------------------

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
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[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
-------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)
Why using pyasn1

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

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

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

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
      NamedType('id', Integer()),
      OptionalNamedType(
          'room', Integer().subtype(
              implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
          )
      )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):
```
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```
Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.
```
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```
Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.
```
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
```
The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

--------------
The pyasn1 package is distributed under terms and conditions of 2-clause BSD license. Source code is freely available as a GitHub repo.

You could `pip install pyasn1` or download it from PyPI.

If something does not work as expected, open an issue at GitHub or post your question on Stack Overflow or try browsing pyasn1 mailing list archives.

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1.88 slang 2.3.2

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1.92 regex 3.4a

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1.93 inotify-tools 3.14 r0

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From 7461a3de38b66edbe2f5593f9bdab9f2704d32bc Mon Sep 17 00:00:00 2001
From: Hongxu Jia <hongxu.jia@windriver.com>
Date: Wed, 17 Aug 2016 04:06:34 -0400
Subject: [PATCH] grub module explicitly keeps symbole .module_license

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

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

all_video.mod: file format elf64-x86-64

SYMBOL TABLE:
no symbols
```

It caused grub to load module all_video failed.

```
grub> insmod all_video
error: no symbol table.
```

Tweak strip option to keep symbol .module_license could workaround the issue.

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

all_video.mod: file format elf64-x86-64

SYMBOL TABLE:
0000000000000000 1 d .text 0000000000000000 .text
0000000000000000 1 d .data 0000000000000000 .data
0000000000000000 1 d .module_license 0000000000000000 .module_license
0000000000000000 1 d .bss 0000000000000000 .bss
0000000000000000 1 d .moddeps 0000000000000000 .moddeps
0000000000000000 1 d .modname 0000000000000000 .modname
```
Upstream-Status: Pending

Signed-off-by: Hongxu Jia <hongxu.jia@windriver.com>
---
grub-core/genmod.sh.in | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

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

1.96 u-boot 2013.07
1.96.1 Available under license:

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

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-- Wolfgang Denk

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

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

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1.97 lxc 3.1.0 r0

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 */

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

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

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

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

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

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

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

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

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

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

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

sleep(3);

ret = waitpid(pid, &status, WNOHANG);
if (ret == pid) { // task exited
 if (WIFEXITED(status)) {
 printf("%d exited normally with exit code %d\n", pid, 
 WEXITSTATUS(status));
 if (WEXITSTATUS(status) != 0)

exit(1);
} else
printf("%d did not exit normally\n", pid);
return;
} else if (ret < 0) {
  perror("waitpid");
  exit(1);
}

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

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

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

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

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

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

  struct stat sb;
char *pathname = RUNTIME_PATH "\lxc\lock\var\lib\lxc\";

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

lxc_putlock(lock);

test_two_locks();

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

exit(ret);
}
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1.98 cpp 8.2.0

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

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

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
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performing this distribution.

d) If distribution of the work is made by offering access to copy
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e) 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
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which the executable runs, unless that component itself accompanies
the executable.

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That's all there is to it!
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@example

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@example
@example

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1.99 python-atomicwrites 1.3.0 r0

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1.102 linux-kernel 4.4.206
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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.

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

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

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

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

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

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

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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That's all there is to it!

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The source code for a work means the preferred form of the work for 
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code means all the source code for all modules it contains, plus any 
associated interface definition files, plus the scripts used to 
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#ifndef __LICENSE_H
#define __LICENSE_H

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

/* 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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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

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1.107 libunwind 1.2.1 r0

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1.111 telit-gobinet 20190619

1.111.1 Available under license:
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/*===========================================================================
QMIDevice.c

DESCRIPTION:
Functions related to the QMI interface device

FUNCTIONS:
Generic functions
 IsDeviceValid
 PrintHex
 GobiSetDownReason
 GobiClearDownReason
 GobiTestDownReason

Driver level asynchronous read functions
 ResubmitIntURB
 ReadCallback
 IntCallback
 StartRead
 KillRead

Internal read/write functions
 ReadAsync
 UpSem
 ReadSync
 WriteSyncCallback
 WriteSync

Internal memory management functions
 GetClientID
 ReleaseClientID
 FindClientMem
 AddToReadMemList
 PopFromReadMemList

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

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AddToNotifyList
NotifyAndPopNotifyList
AddToURBList
PopFromURBList

Userspace wrappers
UserspaceOpen
UserspaceIOCTL
UserspaceClose
UserspaceRead
UserspaceWrite
UserspacePoll

Initializer and destructor
RegisterQMIDevice
DeregisterQMIDevice

Driver level client management
QMIReady
QMIWDSCallback
SetupQMIWDSCallback
QMIDMSGetMEID

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/*===========================================================================
FILE:
QMIDevice.h
DESCRIPTION:
Functions related to the QMI interface device

FUNCTIONS:
Generic functions
IsDeviceValid
PrintHex
GobiSetDownReason
GobiClearDownReason
GobiTestDownReason

Driver level asynchronous read functions
ResubmitIntURB
ReadCallback
IntCallback
StartRead
KillRead

Internal read/write functions
ReadAsync
UpSem
ReadSync
WriteSyncCallback
WriteSync

Internal memory management functions
GetClientID
ReleaseClientID
FindClientMem
AddToReadMemList
PopFromReadMemList
AddToNotifyList
NotifyAndPopNotifyList
AddToURBLList
PopFromURBLList

Userspace wrappers
UserspaceOpen
Userspace_IOCTL
Userspace_Close
Userspace_Read
Userspace_Write
Userspace_Poll

Initializer and destructor
RegisterQMIDevice
DeregisterQMIDevice

Driver level client management
QMIReady
QMIWDS_Callback
SetupQMIWDS_Callback
QMI_DMS_Get_MEID

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/*===========================================================================
FILE: Structs.h
DESCRIPTION:
 Declaration of structures used by the QTI Linux USB Network driver
FUNCTIONS:
 none

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FILE:
QMI.h

DESCRIPTION:
QTI QMI driver header

FUNCTIONS:
Generic QMUX functions
ParseQMUX
FillQMUX

Generic QMI functions
GetTLV
ValidQMIMessage
GetQMIMessageID

Get sizes of buffers needed by QMI requests
QMUXHeaderSize
QMICTLGetClientIDReqSize
QMICTLReleaseClientIDReqSize
QMICTLReadyReqSize
QMIWDSSetEventReportReqSize
QMIWDSGetPKGSRVCSatusReqSize
QMIDMSGetMEIDReqSize

Fill Buffers with QMI requests
QMICTLGetClientIDReq
QMICTLReleaseClientIDReq
QMICTLReadyReq
QMIWDSSetEventReportReq
QMIWDSGetPKGSRVCSatusReq
QMIDMSGetMEIDReq

Parse data from QMI responses
QMICTLGetClientIDResp
QMICTLReleaseClientIDResp
QMIFWSEventResp
QMIDMSGetMEIDResp

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FILE:
QMI.c

DESCRIPTION:
QTI QMI driver code

FUNCTIONS:
Generic QMUX functions
  ParseQMUX
  FillQMUX

Generic QMI functions
  GetTLV
  ValidQMIMessage
  GetQMIMessageID

Fill Buffers with QMI requests
  QMICTLGetClientIDReq
  QMICTLReleaseClientIDReq
  QMICTLReadyReq
  QMIWDSSetEventReportReq
  QMIWDSGetPKGSRVCStatusReq
  QMIDMSGetMEIDReq

Parse data from QMI responses
  QMICTLGetClientIDResp
  QMICTLReleaseClientIDResp
  QMIWDSEventResp
  QMIDMSGetMEIDResp

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FILE:
GobiUSBNet.c

DESCRIPTION:
QTI USB Network device

FUNCTIONS:
GatherEndpoints
GobiSuspend
GobiResume
GobiNetDriverBind
GobiNetDriverUnbind
GobiUSBNetAutoPMThread
GobiUSBNetOpen
GobiUSBNetStop
GobiUSBNetProbe
GobiUSBNetModInit
GobiUSBNetModExit

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1.112 python-dbus 1.2.8 r0

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
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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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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
* Bob Schlaermann
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* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.120 python-pyudev 0.21.0 r0
1.120.1 Available under license :

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21: */
# PC Screen (console) Fonts - psf1 header

| 0       | leshort         | 0x0436          | psf screen font data |
| 2 byte   | 0              | 256 characters, no index |
| 2 byte   | 1              | 512 characters, no index |
| 2-byte2256 characters, Unicode index |
| 2-byte3512 characters, Unicode index |
| 2-byte4256 characters, Unicode level 2 index |
| 2-byte5512 characters, Unicode level 2 index |
| 3-byte68x%d |

# PC Screen (console) Fonts - psf2 header

| 0       | lelong		| 0x864ab572	psf2 screen font data |
| 12-byte | &1     | 1		| with Unicode index |
| 16-byte  | x    | 1 | %d glyphs |
| 28-byte | x    | 1 | %dx |
| 24-byte | x    | 1 | %d |

rJ
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1.140 python-idna 2.7 r0
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1.141 python-ndg-httpsclient 0.4.4

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1.142 cjson 1.7.10 r0

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

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1.146 uefi-ext2-driver 0.1

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From b0c3ba9ae15b9739856e17e59df90e532424e961 Mon Sep 17 00:00:00 2001
From: Marcin Wojtas <mw@semihalf.com>
Date: Wed, 30 Nov 2016 16:00:05 +0100
Subject: [PATCH 183/199] ExtPkg: Update ext driver

+/**
 + * 
 + * fsw_efi_edk2_base.h
 + * Base definitions for the EDK EFI Toolkit environment.
 + */
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+
+#ifndef _FSW_EFI_EDK2_BASE_H_
-
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+/**
+ * \file fsw_lib.c
+ * Core file system wrapper library functions.
+ */

-/*
- * This code is based on:
- *
- * Copyright (c) 2006 Christoph Pfisterer
- *
- * Redistribution and use in source and binary forms, with or without
- @ @ -96.34 +82.6 @ @ int fsw_strlen(struct fsw_string *s)
- return s->len;
- }

-static const fsw_u16 fsw_latin_case_fold[] =
-{
- /* 0 */ 0xFFFF, 0x0001, 0x0002, 0x0003, 0x0004, 0x0005, 0x0006, 0x0007, 0x0008, 0x0009, 0x000A, 0x000B,
- 0x000C, 0x000D, 0x000E, 0x000F,
- /* 1 */ 0x0010, 0x0011, 0x0012, 0x0013, 0x0014, 0x0015, 0x0016, 0x0017, 0x0018, 0x0019, 0x001A, 0x001B,
- 0x001C, 0x001D, 0x001E, 0x001F,
- /* 2 */ 0x0020, 0x0021, 0x0022, 0x0023, 0x0024, 0x0025, 0x0026, 0x0027, 0x0028, 0x0029, 0x002A, 0x002B,
- 0x002C, 0x002D, 0x002E, 0x002F,
- /* 3 */ 0x0030, 0x0031, 0x0032, 0x0033, 0x0034, 0x0035, 0x0036, 0x0037, 0x0038, 0x0039, 0x003A, 0x003B,
- 0x003C, 0x003D, 0x003E, 0x003F,
- /* 4 */ 0x0040, 0x0041, 0x0042, 0x0043, 0x0044, 0x0045, 0x0046, 0x0047, 0x0048, 0x0049, 0x004A, 0x004B,
- 0x004C, 0x004D, 0x004E, 0x004F,
- /* 5 */ 0x0050, 0x0051, 0x0052, 0x0053, 0x0054, 0x0055, 0x0056, 0x0057, 0x0058, 0x0059, 0x005A, 0x005B,
- 0x005C, 0x005D, 0x005E, 0x005F,
- /* 6 */ 0x0060, 0x0061, 0x0062, 0x0063, 0x0064, 0x0065, 0x0066, 0x0067, 0x0068, 0x0069, 0x006A, 0x006B,
- 0x006C, 0x006D, 0x006E, 0x006F,
- /* 7 */ 0x0070, 0x0071, 0x0072, 0x0073, 0x0074, 0x0075, 0x0076, 0x0077, 0x0078, 0x0079, 0x007A, 0x007B,
- 0x007C, 0x007D, 0x007E, 0x007F,
- /* */ 0x0080, 0x0081, 0x0082, 0x0083, 0x0084, 0x0085, 0x0086, 0x0087, 0x0088, 0x0089, 0x008A, 0x008B, 0x008C, 0x008D, 0x008E, 0x008F,
- /* */ 0x0090, 0x0091, 0x0092, 0x0093, 0x0094, 0x0095, 0x0096, 0x0097, 0x0098, 0x0099, 0x009A, 0x009B, 0x009C, 0x009D, 0x009E, 0x009F,
- /* */ 0x00A0, 0x00A1, 0x00A2, 0x00A3, 0x00A4, 0x00A5, 0x00A6, 0x00A7, 0x00A8, 0x00A9, 0x00AA, 0x00AB, 0x00AC, 0x00AD, 0x00AE, 0x00AF,
- /* */ 0x00B0, 0x00B1, 0x00B2, 0x00B3, 0x00B4, 0x00B5, 0x00B6, 0x00B7, 0x00B8, 0x00B9, 0x00BA, 0x00BB, 0x00BC, 0x00BD, 0x00BE, 0x00BF,
- /* */ 0x00C0, 0x00C1, 0x00C2, 0x00C3, 0x00C4, 0x00C5, 0x00CE, 0x00CF,
- /* */ 0x00D0, 0x00D1, 0x00D2, 0x00D3, 0x00D4, 0x00D5, 0x00D6, 0x00D7, 0x00D8, 0x00D9, 0x00DA, 0x00DB, 0x00DC, 0x00DD, 0x00DE, 0x00DF,
- /* */ 0x00E0, 0x00E1, 0x00E2, 0x00E3, 0x00E4, 0x00E5, 0x00E6, 0x00E7, 0x00E8, 0x00E9, 0x00EA, 0x00EB, 0x00EC, 0x00ED, 0x00EE, 0x00EF,
- /* */ 0x00F0, 0x00F1, 0x00F2, 0x00F3, 0x00F4, 0x00F5, 0x00F6, 0x00F7, 0x00F8, 0x00F9, 0x00FA, 0x00FB, 0x00FC, 0x00FD, 0x00FE, 0x00FF,
-}:;
- 
- 
-fsw_u16 fsw_to_lower(fsw_u16 ch)
-{ 
- if (ch < 0x0100)
- return fsw_latin_case_fold[ch];
- return ch;
-}

/**
 * Compare two strings for equality. The two strings are compared, taking their
 * encoding into account. If they are considered equal, boolean true is returned.
 */
@@ -247,7 +205,7 @@ fsw_status_t fsw_strdup_coerce(struct fsw_string *dest, int type, struct fsw_str

/**
 * Splits a string at the first occurrence of the separator character.
 */

/* $Id: fsw_strfunc.h 29125 2010-05-06 09:43:05Z vboxsync $ */
-/* @file
- * fsw_strfunc.h
- */
+/* fsw_strfunc.h generated by mk_fsw_strfunc.py */
/*
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/*-*/
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 */

/* fsw_strfunc.h generated by mk_fsw_strfunc.py */

static int fsw_streq_ISO88591_UTF8(void *s1data, void *s2data, int len) {
    int i;
    @ @ -43.7 +58.6 @@ static int fsw_streq_ISO88591_UTF8(void *s1data, void *s2data, int len)
static int fsw_streq_ISO88591_UTF16(void *s1data, void *s2data, int len)
{
    int i;
    static int fsw_streq_ISO88591_UTF16(void *s1data, void *s2data, int len)
    }
    return 1;
}

-#ifndef HOST_EFI

static int fsw_streq_ISO88591_UTF16_SWAPPED(void *s1data, void *s2data, int len)
{
    --
    2.7.4

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AUTOCONF CONFIGURE SCRIPT EXCEPTION
Version 3.0, 18 August 2009

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1.156 util-linux 2.32.1 r0
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1.157 regex 3.8a

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1.165 llvm-project-source 7.1.0 r0

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```c
; RUN: llc -s -mltrim=s390x-linux-gnu -mcpu=zEC12 -verify-machineinst | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246
 CF246:                                            ; preds = %CF246, %BB
    %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248
 CF248:                                            ; preds = %CF248, %CF246
    store i8 %SI163, i8* %0
    br label %CF248
}
```

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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

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

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

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

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

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

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<td>add_lldb_library</td>
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</tr>
<tr>
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<td>lldbCore</td>
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<tr>
<td>LINK_COMPONENTS</td>
<td>Support</td>
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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

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

target triple = "hexagon"

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

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

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

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

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

unreachable

sw_bb3.i: ; preds = %while.body
unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [ i32 1, label %sw_bb.i17 i32 2, label %sw_bb3.i20 ]

sw_bb.i17: ; preds = %exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4 unreachable

sw_bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4 unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s ;
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
    %cmp = fcmp ogt fp128 %a, %b
    %sub = fsub fp128 %a, %b
    %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
    ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}
define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
}

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1.169 python-iso8601 0.1.12 r0
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1.170 python3-pyparsing 2.4.2 r0

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1.171 pcap-bpf-h 1.34

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*  @(#)bpf.h 7.1 (Berkeley) 5/7/91
*
*  @(#) $Header: /tcpdump/master/libpcap/pcap-bpf.h,v 1.34 2005/02/08 20:03:15 guy Exp $ (LBL)
*/

1.172 pservlet 0.3 2
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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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.

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b) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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#ifndef __LICENSE_H
#define __LICENSE_H

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

/* 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.iovlen != 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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============

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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- Michael Hunold <m.hunold@gmx.de>

- for the initial saa7146 driver and its recent overhaul

- Christian Theiss

- for his work on the initial Linux DVB driver

- Marcus Metzler <mocm@metzlerbros.de> and Ralph Metzler <rjkm@metzlerbros.de>

- for their continuing work on the DVB driver

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- Diego Picciani <d.picciani@novacomp.it>

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

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- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

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

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

2. Style:

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

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

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

3. Syntax:

A <SPDX License Expression> is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(" , ")" .

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option.
// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+

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

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

Other examples using WITH exceptions found in the kernel are::

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

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

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

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

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

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

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

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

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

// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+

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

1. _Preferred licenses_

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

    LICENCES/preferred/

in the kernel source tree.

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

Examples:

    LICENCES/preferred/GPL-2.0

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

    LICENCES/preferred/MIT

Contains the MIT license text and the required metatags

`Metatags`:

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

- Valid-License-Identifier:

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

- SPDX-URL:

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

- Usage-Guidance:

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

- License-Text:

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

File format examples::

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

::

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

| 2. Not recommended licenses:

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

    LICENSES/other/

 in the kernel source tree.

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

Examples::

    LICENSES/other/ISC

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

    LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

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

File format example::

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

3. `Exceptions`:

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

    LICENSES/exceptions/

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

Examples::
LICENCES/exceptions/Linux-syscall-note

Contains the Linux syscall exception as documented in the COPYING file of the Linux kernel, which is used for UAPI header files.

```
.e.g. * SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */::
```

LICENCES/exceptions/GCC-exception-2.0

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

`Exception Metatags`:

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

- SPDX-Exception-Identifier:

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

- SPDX-URL:

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

- SPDX-Licenses:

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

- Usage-Guidance:

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

- Exception-Text:

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

File format examples::

```
SPDX-Exception-Identifier: Linux-syscall-note
SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+
```
Usage-Guidance:
This exception is used together with one of the above SPDX-Licenses to mark user-space API (uapi) header files so they can be included into non GPL compliant user-space application code.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note

Exception-Text:
Full exception text

::

SPDX-Exception-Identifier: GCC-exception-2.0
SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html
SPDX-Licenses: GPL-2.0, GPL-2.0+

Usage-Guidance:
The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0

Exception-Text:
Full exception text

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

Valid-License-Identifier: LGPL-2.0
Valid-License-Identifier: LGPL-2.0+
SPDX-URL: https://spdx.org/licenses/LGPL-2.0.html

Usage-Guide:
To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.

For 'GNU Library General Public License (LGPL) version 2.0 only' use:

SPDX-License-Identifier: LGPL-2.0

For 'GNU Library General Public License (LGPL) version 2.0 or any later version' use:

SPDX-License-Identifier: LGPL-2.0+

License-Text:

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991
Open Source Used In Polaris_MR_Releases 17.3.4  1806

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51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA

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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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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
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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they refer to the ordinary GNU General Public License, version 2,
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ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in these
notices.

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

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

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

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

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is designed to work with the Library by being compiled or linked with
it, is called a "work that uses the Library". Such a work, in isolation,
is not a derivative work of the Library, and therefore falls outside the
scope of this License.

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

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

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

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

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

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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
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definitions files in the Library will not necessarily be able to
recompile the application to use the modified definitions.)

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

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

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

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

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one line to give the library's name and an idea of what it does.

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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.
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* 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
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* 
* 
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*
* M. Welsh, 6 July 1996
*
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for CyberLogin for Linux which allows logging onto EON
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Ty Coon, President of Vice

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<th>License</th>
<th>Distinguishing feature</th>
</tr>
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<tbody>
<tr>
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<td>Public Domain</td>
<td>Bitmap font</td>
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</table>
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<table>
<thead>
<tr>
<th>Image</th>
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<tbody>
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<td>Public Domain</td>
<td>Bitmap image (image/jpeg)</td>
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Version 3, 29 June 2007

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The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.
To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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

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

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

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

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

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

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

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied
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1.187 python3-pyspellchecker 0.5.4 r0

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1.188 strace 4.24 r0

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1.193 libatomic-ops 7.6.10 r0

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package spec

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// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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Gocheck - A rich testing framework for Go

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

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

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the "copyright" line and a pointer to where the full notice is found.

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

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

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

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

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

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

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

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Version 3, 29 June 2007

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An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

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b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

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

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

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

Files:
tests/test-update-copyright.sh

Depends-on:

configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])

Makefile.am:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir="$\(abs_aux_dir\)"
@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
@end display

@subheading Preamble

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This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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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.

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.

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

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

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

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

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

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

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

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License”). Each licensee is addressed as ``you”.

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

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

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

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

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@item
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distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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refrain entirely from distribution of the Library.

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and the section as a whole is intended to apply in other circumstances.

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

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

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an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
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but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
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the Free Software Foundation. If the Library does not specify a
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the Free Software Foundation.

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).
To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the `copyright' line and a pointer to where the full notice is found.

@example
@example
\begin{verbatim}
\section*{Copyright}
\begin{verbatim}
\textcopyright{} \@{year} \@{name of author}
\end{verbatim}
\end{verbatim}
\end{verbatim}
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
@end smallexample

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

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

@example
@example
\begin{verbatim}
Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.
\end{verbatim}
\end{verbatim}
\end{verbatim}
\end{verbatim}
\end{verbatim}
That's all there is to it!

Files:
\begin{verbatim}
tests/test-canonicalize-lgpl.c
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Tests:
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tests/signature.h
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ignore-value
same_inode
symlink

configure.ac:

Makefile.am:
TESTS += test-canonicalize-lgpl
check_PROGRAMS += test-canonicalize-lgpl
$Id: COPYING,v 1.3 2006-10-26 16:20:28 eggert Exp $
The files in here are mostly copyright (C) Free Software Foundation, and
are under assorted licenses. Mostly, but not entirely, GPL.

Many modules are provided dual-license, either GPL or LGPL at your
option. The headers of files in the lib directory (e.g., lib/error.c)
state GPL for convenience, since the bulk of current gnu lib users are
GPL’d programs. But the files in the modules directory (e.g.,
modules/error) state the true license of each file, and when you use
‘gnu lib-tool --lgpl --import <modules>’, gnu lib-tool either rewrites
the files to have an LGPL header as part of copying them from gnu lib
to your project directory, or fails because the modules you requested
were not licensed under LGPL.

Some of the source files in lib/ have different licenses. Also, the
copy of maintain.texi in doc/ has a verbatim-copying license, and
doc/standards.texi and make-stds.texi are GFDL. Most (but not all)
m4/*.m4 files have nearly unlimited licenses.
@c The GNU General Public License.
@end display
@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@end display
Copyright @copyright{} 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

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of this license document, but changing it is not allowed.
@end display

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freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software---to make sure the software is free for all its users. This
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The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
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@item
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@enumerate
@item
You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

@item
You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

@item
If the modified program normally reads commands interactively when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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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; or,

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the
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@item
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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

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

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

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

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TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

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@heading END OF TERMS AND CONDITIONS
@end iftex

@end ifinfo

@end page

@heading Appendix: How to Apply These Terms to Your New Programs

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

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

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

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
@end smallexample

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

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

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

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

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

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

Description:
Concatenate two arbitrary file names.

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

Depends-on:
dirname-lgpl

configure.ac:
gl_FILE_NAME_CONCAT_LGPL

Makefile.am:
lib_SOURCES += filenamecat-lgpl.c
Include:
"filenamecat.h"

License:
LGPLv2+

Maintainer:
Jim Meyering
The files in this directory describe the gnilib modules.
The following copyright notice applies to each of these
description files.

Copyright (C) 2002-2018 Free Software Foundation, Inc.
This file is free software; the Free Software Foundation
gives unlimited permission to copy and/or distribute it,
with or without modifications, as long as this notice is preserved.
Please email the following information to assign@gnu.org, and we
will send you the assignment form for your past and future changes.

Please use your full legal name (in ASCII characters) as the subject
line of the message.
-----------------------------------------------
REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES

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

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

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

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

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

**Description:**
Provide the GNU Free Documentation License in Texinfo format.

**Files:**
doc/fdl.texi

**Depends-on:**
configure.ac:

**Makefile.am:**

**Include:**

**License:**
unmodifiable license text

**Maintainer:**
all

**Description:**
Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

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

**Depends-on:**
strdup

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

**Makefile.am:**

DEFS += -DNO_XMALLOC

**Include:**
"relocatable.h"

License:
LGPLv2+

Maintainer:
Ben Pfaff

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

Files:
lib/getcwd-lgpl.c
m4/getcwd.m4

Depends-on:
unistd
strdup           [test $REPLACE_GETCWD = 1]

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

Makefile.am:

Include:
<unistd.h>

License:
LGPLv2+

Maintainer:
Eric Blake

Legal Issues about Contributing Code to GNUlast updated 14 July 2015

Project GNU has to be careful to obey copyright laws, even though these laws are wrong when they stop people from sharing generally useful published information such as software, because we are in the public eye. We also use copyright to defend users’ freedom, by means of copyleft (though this does not excuse copyright law for helping to make software proprietary).

This means that if you want to contribute software to GNU, you have to do something to give us legal permission to use it. There are three ways this can be done:
* Assign the copyright to the Free Software Foundation. This allows the FSF to act to stop violations of the GPL.

* Keep the copyright and release the program yourself under the GNU GPL. (This alternative is too impractical for contributions to a preexisting FSF-copyrighted GNU program.)

* Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we can still use the program in GNU.

Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.

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If you put the program in the public domain, we prefer to have a signed piece of paper—a disclaimer of rights—from you confirming this. If the program is not very important, we can do without one; the worst that could happen is that we might some day be forced to stop using it.

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* What about your employer?

If you are employed to do programming, or have made an agreement with your employer that says it owns programs you write, we need a signed piece of paper from your employer disclaiming rights to the program. It should be signed by a vice president or general manager of the company. If you can't get at them, it is almost as good to find someone who signs licenses for software that is purchased. Here is a sample wording:

Digital Simulation Corporation hereby disclaims all copyright interest in the program "sample.el" (a program to direct assemblers to make passes at compilers under GNU Emacs) written by Hugh Hacker.

<signature of Mo Ghoul>, 1 April 1987
Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

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* A reminder:

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It is not considered a serious problem if you have read Unix sources or other non-free source code in the past for other purposes, provided you don't copy anything in particular from them. However, referring to them while you do the work could cause us legal problems later.

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

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

Depends-on:
stdbool
strdup
concat-filename
unistd

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

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

Include:
"findprog.h"

License:
LGPLv2+

Maintainer:
all

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

Depends-on:

configure.ac:

Makefile.am:
- TESTS += test-getcwd-lgpl
- check_PROGRAMS += test-getcwd-lgpl
- test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)

Description:
realpath, canonicalize_file_name: Provide canonical absolute file name

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

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

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

Makefile.am:

   Include:
   <stdlib.h>

   License:
   LGPLv2+

   Maintainer:
   all
   Description:
   Extract specific portions of filenames.

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

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

configure.ac:
gl_DIRNAME_LGPL

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

Include:
"dirname.h"

License:
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Maintainer:
Jim Meyering, Eric Blake

1.210 binutils 2.30
1.210.1 Available under license :

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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-cofbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.
Steve Chamberlain made gas able to generate listings.

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

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

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

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

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

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

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

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

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

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

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

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

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

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

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

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DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

That's all there is to it!

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[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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

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

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

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

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

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

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

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

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

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

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

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

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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 3a0982da308228d796df35f98d787c5c6f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.213 selinux-policy 2.20170204 r0

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1.214 python-pygobject 3.28.3 r0

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1.216 ntp 4.2.8p13 r0

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  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type = ntp;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

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

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

/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
// doc-sub = {
  sub-name = version;
  sub-text = \$\{VERSION\}<version>\'/
};
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Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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Sven Dietrich <sven_dietrich@trimble.com>
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Apple A/UX port

Linux port

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Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver

Mike Iglesias <iglesias@uci.edu> DEC Alpha port

Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port

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MD5-based authentication

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Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port

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<a href="mailto:%20mrapple@quack.kfu.com">Nick Sayer <mrapple@quack.kfu.com></a> SunOS streams modules

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<a href="mailto:%20Ulrich.Windl@rz.uni-regensburg.de">Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de></a> corrected and validated HTML documents according to the HTML DTD

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1.217 python-pysocks 1.6.8 5.el7

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1.218 python3-cryptography-vectors 2.9 r0

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1.225 go-context git r0

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1.226 berkeley-db 5.3.28 r1

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1.227 python3-certifi 2019.11.28 r0

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1.232 python-pip 19.2.3 r0
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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.

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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This is a bundle of X.509 certificates of public Certificate Authorities (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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1.236 nfs-utils 2.3.1 r0

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* Added generation of field number constants.
Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
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* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
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* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM x1C compiler build issues
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1.238 openssh 8.0p1 r0

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1.240 systemd 239 r0

1.241 python-pyopenssl 17.5.0
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1.247 python3-gevent 1.2.2 r0

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1.248 quota 4.05 r0

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1.251 python3-zipp 0.6.0 r0

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1.252 systemd-bootchart 233 r0

1.253 ip-address 1.0.18

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1.260 python-backports-lzma 0.0.3 r0

1.261 python 2.7.18 r0

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see...
https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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

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

That's all there is to it!
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#endif

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

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

Martin Schaller <martin@smurf.fraken.de>
for patching the cable card decoder driver

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

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

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

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

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

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
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Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

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

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

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

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

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

Michael Krufky <mkrufky@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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</sect1>
</appendix>

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1.266 libxml 2.9.9 r0

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include/freetype/internal/fthash.h

src/base/fthash.c
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
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1.270 log-rotate 3.14.0 r0

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That's all there is to it!
1.277 coreutils 8.29

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1.281 rpcbind 1.2.5 r0

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1.282 expat 2.2.5

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1.283 python-ply 3.11 1.0

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 *
 * searchpref.h: display template library defines
 * 16 May 1994 by Gordon Good
 */
```

1.285 ptest-runner

2.3.2+gitAUTOINC+7015e9199c r0

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1.288 iperf 3.7 r0

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* stdio.c
* by Mark Gates <mgates@nlanr.net>
* and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
* -------------------------------------------------------------------
* input and output numbers, converting with kilo, mega, giga
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1.295 python3-pluggy 0.13.0 r0

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1.298 libffi 3.2.1

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1.300 python-pycrypto 2.6.1 r0

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

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00INDEX - This file
tsu-notify.mbox - Notification sent per U.S. export regulations
copy/ - Copyright info & public-domain dedications
From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
# dlitz@dlitz.net
# requested that this message be sent to:-
# crypt@bis.doc.gov
# enc@nsa.gov
# web_site@bis.doc.gov
# pycrypto@lists.dlitz.net
# PYTHON-CRYPTO@NIC.SURFNET.NL
# dlitz@dlitz.net

# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978

# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service

# For information about the Stamper service see
# http://www.itconsult.co.uk/stamper.htm

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1F6E B3CF F273 ED17 4A24 928C EC13 39C2 SCF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnVtvth+BAQEcuwf9EWnXLqS05bPzR9K9QnTPcsKbTiJkJPxrd+q0E7eE8VtvvijUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgaA4fgAgvYH9t
UNjJ/kv8QLz/aq2fi/HNyjrvnqFnU0uqwpOrQGbY8+SGpVb1gKqy1Ju45L+doq
sxbzCOpigRv22DdNR/2SnFmDWGQv8dSeonwHhQDf18/LVA/gHiTDmteQ0hJQ6oXYhY+HbRjD741/GSp0911N51n0UgshFoLIndhN5AvWfApyh55C7ho+B/C0v/WpqSIIPkwmbhlPHo0ItTkNe0qKLMXqMGJNh08ArkYZ0YoYksb0HsA==
=3oIX

-----END PGP SIGNATURE-----

From dlitz@dlitz.net Sun Aug 2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <drown@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <drown@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=domainkey-signature:mime-version:received/in-reply-to:references
:from:date:message-id:subject:to:content-type
:content-transfer-encoding;
b=AoRHBt0TrnhKSSqOHJ3WYbkZ+bc0uPeuoKAvgApWcc=;
b=VyTqkRhhKHadFKIZCBWsbmMNVDq1PWjbyC0EvxPskaoHr3HAR96MWQNB6Pu40Ac
Vn555qTldom4e9zIUE66WzQ9kqj/qWoL/SLib0DIq6EnqoeHYqPmuVsWItaYwNAYMJ
Y9+76rPGqzYdALFsvmsv7Q3/bEmjVTr0tQE=
DomainKey-Signature: a=rsa-sha1; c=nofws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:from:date:message-id:subject:to
:content-type:content-transfer-encoding;
b=jze7KSMkUGifVCXXaMXMi5NAIgGdMQOtVZZfRNRyGSy68xO1d2sxefjyyig3EfT6Nv6
Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NweEJWJnG3xciRQu/mXPFp8AzPI3CefL
1ornjLM1eQ2XyuZA73jw+mSJf/HUcSD1UhgI=

MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,
03 Aug 2009 09:14:03 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
From: Paul Swartz <paulswartz@gmail.com>
Date: Mon, 3 Aug 2009 12:13:43 -0400
Message-ID: <324cfb540908030913x71d33110kb069052f74e5ae6b@mail.gmail.com>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu= 
> blic
> domain all your contributions to PyCrypto, with the following notice?
> 
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> =3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> Yes, that's fine.  Good luck with the new release!

-p
--20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>>
>> I am the new maintainer of the Python Cryptography Toolkit, and I am
>> working on a new release at http://www.pycrypto.org/.
>>
> >That's great!
>>
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>>>
>> The contents of this file are dedicated to the public domain. To the
>> extent that dedication to the public domain is not available, everyone
>> is granted a worldwide, perpetual, royalty-free, non-exclusive license
>> to exercise all rights associated with the contents of this file for
>> any purpose whatsoever. No rights are reserved.
>
> >Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication.
for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 11:29:39 -0500 (EST)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 10:29:39 -0600 (CST)
    Received: (vmailmgr-postfix 8668 invoked by uid 1003);  2 Mar 2009 10:29:39 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
    envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
    Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
        by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 10:29:38 -0600 (CST)
    Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
        by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 11:29:35 -0500 (EST)
    Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
    From: Barry Warsaw <barry@python.org>
    To: Dwayne C. Litzenberger <dlitz@dlitz.net>
    In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
    Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
    Content-Transfer-Encoding: quoted-printable
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=
Python library.

> I understand that you have made contributions to PyCrypto. May I, =20,
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJhnEjvBPtuXfVAQLZjgP/ecG+JdZwNvPJRfza6rhY6+MHLDHI6agk
 evkJnSJQaCVHlZnV1eR5lXgvDUMakZjU4SOV7MqkhksKA9Ile7PaD9VSYgn3ra5
gElw12DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjbwDRA3wItOrH7
 SK4w9VJfYfY=3D
 =3DQduY
-----END PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>
On November 23, 2008, you wrote:

> Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
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>
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)
iQCVAwUBSSnnAl8UnN8n93LBaQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FektbDOzkxgc5580MGGeExXMVn8aw+1BHg0YD85gsntLDzkcQtb+B/RxAvJ5zKyAY
J/Mn/I+16ekJQ3juh5IPHLAduOXM9RtguaasyR+Dooa0xOPKoBx/+5+t1LjtBcZ
wrPEa9Oui9s=
zSY9
-----END PGP SIGNATURE-----
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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--amk (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can...
find, starting with you, if I can release PyCrypto under something clearer=
and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFakko52IACgkQHBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjkeyJaTbzEqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

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The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar  8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
    for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 17:28:16 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
    for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 15:28:15 -0600 (CST)
    Received: (vmailmgr-postfix 5011 invoked by uid 1003);  8 Mar 2009 15:28:15 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
    Received: from rv-out-0708.google.com (unknown [209.85.198.249])
        by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
        for <dlitz@dlitz.net>; Sun,  8 Mar 2009 15:28:12 -0600 (CST)
        Received: by rv-out-0708.google.com with SMTP id k29so125333rvb.26
            for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=nofws;
    d=gmail.com; s=gamma;
    h=domainkey-signature:mime-version:received:in-reply-to:references
        :date:message-id:subject:from:to:content-type;
    bh=YWy9U32WCU/isRqukHwaoOZyJQBU4Yv5m1l20U6ml/g=;
    b=Omlj221IxYiJKge2zNJV3trUhij9LqFxmey5Wp0pLtuNF+x3duyhopTuBAKw7MwVY
        B5E6VQuGVEyzBbNscytVgq6DhQiQtoUCZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas
        L9/A6D3/J66kKrxBgX9mc0GPaZTviviVFYkPR0Q=
    DomainKey-Signature: a=rsa-sha1; c=nofws;


Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
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> 
> ==============================================================
> 
> Regards,
> - Dwayne
> 
> -- Dwayne C. Litzenberger <dlitz@dlitz.net>
> 
> Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
> 
> --
> Jeethu Rao
> 
> --000e0cd209d0e5a3d40464a23054
> Content-Type: text/html; charset=ISO-8859-1
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for or PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often.

Please direct any further correspondence to jeethu@jeethurao.com

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--
Dwayne C. Litzenberger <dlitz@dlitz.net>

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054--

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:
(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=== EOF ===
From dlitz@dlitz.net Mon May  4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Hi Joris,

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- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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Dwayne C. Litzenberger <dlitz@dlitz.net>
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Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
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>
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From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
    for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
    for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
    Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
    Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
        by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
    for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
    Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
    DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com;
        s=s1024; t=1240269933;
        bh=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
        b=F2h2b2FzpQxxyKFZ8BhenniyupGw4Zvekb9BSk91qKU+51W/TkSGBij5YZlhkLQdkQkJ0qLz5f4g8dT6bOME3s
    DomainKey-Signature:a=rsa-sha1; q=dns; c=nofws;
s=s1024; d=yahoo.com;
    h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
    b=r6RShFF5VzQLg+9tcn1xKuo4Rs+4IVvXp6fdqQOpQMrMyRCxeFooebhuTE35grGqlomOJLwM0+miZwRb6tGkDj7

Open Source Used In Polaris_MR_Releases 17.3.4 3268
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
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Key-signing key   - 19E1
1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
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Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

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is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file
for any purpose whatsoever. No rights are reserved.

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)
iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQClQmYYuVODvIlyLg0hgCi9LAhQ
SH8AoLJgaq1IlI77ZYDc+/Cd8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----

00INDEX This file LICENSE.org Original (deprecated) license for the Python Cryptography Toolkit LICENSE.libtom LICENSE file from LibTomCrypt stmts/ Statements by contributors

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):  

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.org).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

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2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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1.301 compiler 7.1.0 r0

1.301.1 Available under license:

; RUN: llvm < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
; Test that early if conversion produces LOCR with operands of the right register classes.

define void @autogen_SD4739(i8*) {
 ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
 BB:
   %L34 = load i8, i8* %0
   %Cmp56 = icmp sgt i8 undef, %L34
   br label %CF246

 CF246: ; preds = %CF246, %BB
   %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
   br i1 undef, label %CF246, label %CF248

 CF248: ; preds = %CF248, %CF246
   store i8 %SI163, i8* %0
   br label %CF248
}

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==============================================================================
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshl.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshl.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshl.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshl.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

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

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

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

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
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<th>Directory</th>
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</thead>
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<td>clang-tidy/cert</td>
</tr>
<tr>
<td>clang-tidy</td>
<td>clang-tidy/hicpp</td>
</tr>
</tbody>
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<td>OpenBSD regex</td>
<td>llvm/lib/Support/[reg*, COPYRIGHT.regex]</td>
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<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/[*,.data, LICENSE.TXT]</td>
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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
lldbCore
lldbHost
lldbSymbol
LINK_COMPONENTS
Support
)

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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

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

target triple = "hexagon"

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

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

sw.bb.i17: ; preds = %exit 
  %0 = bitcast %struct.0* %lsr.iv to i32* 
  %1 = load i32, i32* %0, align 4 
  unreachable 

sw.bb3.i20: ; preds = %exit 
  %2 = bitcast %struct.0* %lsr.iv to i8** 
  %3 = load i8*, i8** %2, align 4 
  unreachable 

exit.2: ; preds = %exit 
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1 
  br label %while.body 

while.end: ; preds = %entry 
  ret void 
} 

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" } 
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000080000000000000000, %mul
  ret fp128 %res

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1.302 glib 2.54.3 0

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Ty Coon, President of Vice

That's all there is to it!

1.303 libcgroup 0.41 r0
1.303.1 Available under license:

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Version 2.1, February 1999

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Found in path(s):
ASN.1 library for Python

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

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

-------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

----------

ASN.1 solves the data serialization problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialize data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType('room', Integer().subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 0)),
        DefaultedNamedType('house', Integer(0).subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 1))
    )

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> print(record.prettyPrint())
```
Part of the power of ASN.1 comes from its serialization features. You can serialize your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialized ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())

>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0

>>> record == received_record
True

>>> received_record.update(room=123)

>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode

{'id': 123, 'room': 321, 'house': 0}
```
Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> print(record.prettyPrint())
Record:
  id=123
  room=321
```

With ASN.1 design, serialization codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialized forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://pyasn1.sourceforge.net), compiled ASN.1 modules for different protocols and file formats could be found in the [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://pyasn1.sourceforge.net/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/ws_local/PERMITS_SQL/1063192034_1592962487.48/0/pyasn1-0.2.2.2.tar.gz/pyasn1-0.2.2/test/codec/ber/test_decoder.py

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Open Source Used In Polaris_MR_Releases 17.3.4 3339
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.. _license:

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1063192034_1592962487.48/0/pyasn1-0-2-2-1-tar-gz/pyasn1-0.2.2/pyasn1.egg-info/PKG-INFO
* /opt/ws_local/PERMITS_SQL/1063192034_1592962487.48/0/pyasn1-0-2-2-1-tar-gz/pyasn1-0.2.2/PKG-INFO

1.305 libunistring 0.9.9

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under certain conditions; type @samp{show c} for details.
@end example

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the appropriate parts of the General Public License. Of course, your
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Mathieu Desnoyers
May 13th, 2009

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


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

commit id : 2dc5fa0f7cfbf0a64a7a67b39626650e863f16a

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

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

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

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

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

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

1.308 softfloat Release 2b IOS

1.308.1 Available under license:

This C source file is part of the SoftFloat IEC/IEEE Floating-point Arithmetic Package, Release 2b.
Written by John R. Hauser. This work was made possible in part by the
International Computer Science Institute, located at Suite 600, 1947 Center
Street, Berkeley, California 94704. Funding was partially provided by the
National Science Foundation under grant MIP-9311980. The original version
of this code was written as part of a project to build a fixed-point vector
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is available through the Web page 'http://www.cs.berkeley.edu/~jhauser/
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1.309 linux-kernel 4.9.206

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/*
* This implements the ROUTE target, which enables you to setup unusual
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1.312 python3-pyyaml 5.3.1 r0

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

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Lua is designed, implemented, and maintained by a team at PUC-Rio, the Pontifical Catholic University of Rio de Janeiro in Brazil. Lua was born and raised in Tecgraf, formerly the Computer Graphics Technology Group of PUC-Rio. Lua is now housed at LabLua, a laboratory of the Department of Computer Science of PUC-Rio.

The initial work to provide the UEFI implementation of Lua was done at Emulex Corporation.

Some final packaging and build file “beautification” was done at Intel Corporation.

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1.329 libev 4.24 r0

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

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DRuntime: Runtime Library for the D Programming Language
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Version 3.1, 31 March 2009

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*/
#include "config.h"

#if HAVE_AFNETROM || HAVE_HWNETROM
#include <sys/types.h>
#include <sys/ioctl.h>
#include <sys/socket.h>
#include <net/if_arp.h>
#elif (__GLIBC__ > 2) || (__GLIBC__ == 2 && __GLIBC_MINOR__ >= 1)
#include <netax25/ax25.h>
#else
#include <linux/ax25.h>
#endif
#include <stdlib.h>
#include <stdio.h>
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <string.h>
#include <termios.h>
#include <unistd.h>
#include "net-support.h"
#include "pathnames.h"
#include "intl.h"
#include "util.h"

static char netrom_errmsg[128];

extern struct aftype netrom_aftype;

static char *NETROM_print(unsigned char *ptr)
{
    static char buff[8];
    int i;

    for (i = 0; i < 6; i++) {
        buff[i] = ((ptr[i] & 0377) >> 1);
        if (buff[i] == ' ')
            buff[i] = '\0';
    }
    buff[6] = '\0';
    i = ((ptr[6] & 0x1E) >> 1);
    if (i != 0)
        sprintf(&buff[strlen(buff)], "-%d", i);
    return (buff);
}

/* Display an AX.25 socket address. */
static char *NETROM_sprint(struct sockaddr *sap, int numeric)
{
    char buf[64];
    if (sap->sa_family == 0xFFFF || sap->sa_family == 0)
        return safe_strncpy(buf, _("[NONE SET]"), sizeof(buf));
    return (NETROM_print(((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call));
}

static int NETROM_input(int type, char *bufp, struct sockaddr *sap)
{
    unsigned char *ptr;
char *orig, c;
unsigned int i;
sap->sa_family = netrom_aftype.af;
ptr = ((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call;
/* First, scan and convert the basic callsign. */
orig = bufp;
i = 0;
while ((*bufp != '\0') && (*bufp != '-') && (i < 6)) {
c = *bufp++;
if (islower(c))
c = toupper(c);
if (!(isupper(c) || isdigit(c))) {
safe_strncpy(netrom_errmsg, _("Invalid callsign"), sizeof(netrom_errmsg));
#ifdef DEBUG
fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
errno = EINVAL;
return (-1);
}
*ptr++ = (unsigned char) ((c << 1) & 0xFE);
i++;
}
/* Callsign too long? */
if ((i == 6) && (*bufp != '-') && (*bufp != '\0')) {
safe_strncpy(netrom_errmsg, _("Callsign too long"), sizeof(netrom_errmsg));
#ifdef DEBUG
fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
errno = E2BIG;
return (-1);
}
/* Nope, fill out the address bytes with blanks. */
while (i++ < sizeof(ax25_address) - 1) {
*ptr++ = (unsigned char) ((' ' << 1) & 0xFE);
}
/* See if we need to add an SSID field. */
if (*bufp == '-') {
i = atoi(++bufp);
*ptr = (unsigned char) ((i << 1) & 0xFE);
} else {
*ptr = (unsigned char) '\0';
}
/* All done. */

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ifdef DEBUG
fprintf(stderr, "netrom_input(%s): ", orig);
for (i = 0; i < sizeof(ax25_address); i++)
fprintf(stderr, "%02X ", sap->sa_data[i] & 0377);
fprintf(stderr, "\n");
#endif

return (0);
}

/* Display an error message. */
static void NETROM_herror(char *text)
{
    if (text == NULL)
        fprintf(stderr, "%s\n", netrom_errmsg);
    else
        fprintf(stderr, "%s: %s\n", text, netrom_errmsg);
}

static int NETROM_hinput(char *bufp, struct sockaddr *sap)
{
    if (NETROM_input(0, bufp, sap) < 0)
        return (-1);
    sap->sa_family = ARPHRD_NETROM;
    return (0);
}
#endif

/* Set the line discipline of a terminal line. */
static int KISS_set_disc(int fd, int disc)
{
    if (ioctl(fd, TIOCSETD, &disc) < 0) {
        fprintf(stderr, "KISS_set_disc(%d): %s\n", disc, strerror(errno));
        return (-errno);
    }
    return (0);
}

/* Start the KISS encapsulation on the file descriptor. */
static int KISS_init(int fd)
{
    if (KISS_set_disc(fd, N_SLIP) < 0)
        return (-1);
    if (ioctl(fd, SIOCSIFENCAP, 4) < 0)
        return (-1);

/* Start the KISS encapsulation on the file descriptor. */
static int KISS_init(int fd)
{
    if (KISS_set_disc(fd, N_SLIP) < 0)
        return (-1);
    if (ioctl(fd, SIOCSIFENCAP, 4) < 0)
        return (-1);
return (0);
}
#endif

struct hwtype netrom_hwtype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ ARPHRD_NETROM, 7,
    NETROM_print, NETROM_hinput, NULL, 0
};

struct aftype netrom_aftype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ AF_NETROM, 7,
    NETROM_print, NETROM_sprint, NETROM_input, NETROM_herror,
    NULL, NULL, NULL,
    -1,
    "/proc/net/nr"
};

#ifdef* HAVE_AFNETROM */
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   GobiSerial.c
DESCRIPTION:
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PUBLIC DRIVER FUNCTIONS:
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   GobiOpen
   GobiClose
   GobiReadBulkCallback (if kernel is less than 2.6.25)
   GobiSuspend
   GobiResume (if kernel is less than 2.6.24)

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1.337 diffutils 3.6 r0

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1.338 openssh 7.6p1

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/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $*/

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned intnfds_t;
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#endif
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
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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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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
#endif

# ifndef _BSD_WAITPID_H
# define _BSD_WAITPID_H

#endif

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/* Prototype */
int waitpid(int, int *, int);

/*
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

1.339 lvm2 2.03.02 r0

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1.343 libpng 1.6.37 r0
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```python
def main():
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
        ]
    }
```
{'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
]},
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s): * /opt/ws_local/PERMITS_SQL/1084376762_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/setup.py

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1.348 curl 7.66.0
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==============

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1.349 pciutils 3.5.6

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1.352 python3-cffi 1.14.0 r0

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

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

1.356 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
1.357 iptables 1.8.3 r0

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@end enumerate

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That's all there is to it!
/* Native-dependent code for modern AMD64 BSD's.

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#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

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

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

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

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

#endif /* i386-bsd-nat.h */
BEGIN/* i386-bsd-nat.h */
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 ""
print "#include \"defs.h\""
print "#include \"command.h\""
print "#include \"gdbcmd.h\""
print "static void show_copying_command (const char *, int);";
print "static void show_warranty_command (const char *, int);"
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"
}
else if "$0 !~ */[ ]*15\. Disclaimer of Warranty[ ]*$/"
{
  printf " printf_filtered (""
  for (i = 1; i < NF; i++)
  printf "%s\\n", $i;
  printf "%s\\n\n"), $NF;
  }
}/*[ ]*15\. Disclaimer of Warranty[ ]*$/{
print "]";
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 (! "$0 ~ /*[ ]*END OF TERMS AND CONDITIONS[ ]*$/")
{
  printf " printf_filtered (""
  for (i = 1; i < NF; i++)
  printf "%s\\n", $i;
  printf "%s\\n\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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#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "value.h"
#include "gdbcore.h" /* for get_exec_file */
#include "gdbthread.h"

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

#include "bsd-kvm.h"
/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

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

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

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

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

/* The libkvm target. */

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

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

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

    void close () override;

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

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

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

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

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

target_preopen (from_tty);

  if (arg)
  {
    char *temp;

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

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

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

  add_thread_silent (bsd_kvm_ptid);
  inferior_ptid = bsd_kvm_ptid;
target_fetch_registers (get_current_regcache (), -1);

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

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

    inferior_ptid = null_ptid;
discard_all_inferiors ();
}

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

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

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

            if (ret < 0)
                return TARGET_XFER_E_IO;
            else if (ret == 0)
open source used in polaris_mr_releases 17.3.4 4016

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
"),
    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;
  }

  /* 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");

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");

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");

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}

#include 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_tcb (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

#endif

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

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

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

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

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

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

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

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

/* Add the libkvm interface to the list of all possible targets and
   register CUPPLY_PCB as the architecture-specific process control
   block interpreter. */
void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
    gdb_assert (bsd_kvm_supply_pcb == NULL);
    bsd_kvm_supply_pcb = supply_pcb;

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);

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

#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, _("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);
}

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

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#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

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

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

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

    public:
    #ifdef HAVE_PT_GETDBREGS
        void mourn_inferior () override
        {
            x86_cleanup_dregs ();
            base_class::mourn_inferior ();
        }
    #endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */

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<one line to give the program's name and a brief idea of what it does.>  
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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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/* 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); }
};
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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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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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"work based on the library" and a "work that uses the library". The
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials...
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Appendix: How to Apply These Terms to Your New Libraries

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

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

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

# 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", "alocal.m4",  
)

# The list of files to update by hand.

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

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

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

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

NOT_FSF_LIST = (  
    "gdb/exc_request.defs",  
    "gdb/gdbtk",  
    "gdb/testsuite/gdb.gdbtk/",  
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",  
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",  
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",  
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",  
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",  
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",  
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",  
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",  
    "sim/arm/arminit.c",  
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",  
    "sim/common/cgen-accfp.c",  
    "sim/mips/m16run.c", "sim/mips/sim-main.c",  
    "sim/moxie/moxie-gdb.dts",  
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.  
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/id-insn.h",  
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",  
)
if __name__ == "__main__":
    main()
1.363 libusb 1.0.21

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Version 2.1, February 1999

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gevent/libuv/_coreffi_source.c
gevent/libuv/_coreffi_cdef.c

Originally based on code from https://github.com/veegee/guv

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@enumerate 0
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@item
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@end enumerate

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

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

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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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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functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

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The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free
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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

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iconv (Charset Conversion Library) v2.0

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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 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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#!/usr/bin/env python
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#
# 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

Open Source Used In Polaris_MR_Releases 17.3.4 4265


of the script in "<root>/tools".

--ignore-suppressions Ignores path-specific license whitelist. Useful when trying to remove a suppression/whitelist entry.

tocheck Specifies the directory, relative to root, to check. This defaults to "." so it checks everything.

Examples:
python checklicenses.py
python checklicenses.py --root ~/chromium/src third_party"

WHITELISTED_LICENSES = [
    'BSD',
    'BSD (2 clause)',
    'BSD (2 clause) GPL (v2 or later)',
    'BSD (3 clause)',
    'GPL (v2 or later)',
    'GPL (v3 or later) (with Bison parser exception)',
    'ISC',
    'ISC GPL (v2 or later)',
    'LGPL (v2 or later)',
    'LGPL (v2.1 or later)',
    'MIT/X11 (BSD like)',
    'Public domain',
    'Public domain GPL (v2 or later)',
    'Public domain MIT/X11 (BSD like)',
    'zlib/libpng',
    'zlib/libpng GPL (v2 or later)',
]

PATH_SPECIFIC_WHITELISTED_LICENSES = {
    'caputils/airpcap.h': [
        'BSD-3-Clause',
    ],
    'wsutil/strnatcmp.c': [
        'Zlib',
    ],
    'wsutil/strnatcmp.h': [
        'Zlib',
    ],
    'dtds': [
        'UNKNOWN',
    ],
    'diameter/dictionary.dtd': [
        'UNKNOWN',
    ]
}
'GPL (v2 or later) GPL (v2 or later)' # TODO: make licensecheck handle this better
[,
'epan/dissectors/packet-ieee80211-radiotap-iter.': [ # Using ISC license only
  'ISC GPL (v2)'
],
'epan/dissectors/packet-ppi.c': [ # Using BSD (3 clause) license
  'BSD (3 clause) GPL (v2)'
],
'plugins/mate/mate_grammar.h': [
  'UNKNOWN',
],
'version.h': [
  'UNKNOWN',
],
# Special IDL license that appears to be compatible as far as I (not a
# lawyer) can tell. See
# https://www.wireshark.org/lists/wireshark-dev/201310/msg00234.html
'epan/dissectors/pidl/idl_types.h': [
  'UNKNOWN',
],
# Written by Ronnie Sahlberg and correctly licensed, but cannot include
# a license header despite the file extension as they need to be
# parsed by the pidl tool
'epan/dissectors/pidl/mapi/request.cnf.c': [
  'UNKNOWN',
],
'epan/dissectors/pidl/mapi/response.cnf.c': [
  'UNKNOWN',
],
# The following tools are under incompatible licenses (mostly GPLv3 or
# GPLv3+), but this is OK since they are not actually linked into Wireshark
'tools/pidl': [
  'UNKNOWN',
],
'tools/lemon': [
  'UNKNOWN',
],
'tools/licensecheck.pl': [
  'GPL (v2)'
],
# Generated files for GTK pixbuf binary bundling
'ui/gtk/wireshark-gresources.h': [
  'UNKNOWN',
],
'ui/gtk/wireshark-gresources.c': [
  'UNKNOWN',
],
# The airpcap code is using BSD (3 clause)
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

    'epan/crypt/dot11decrypt_interop.h': [
        'BSD (3 clause) GPL (v2)'
    ],
    'epan/crypt/dot11decrypt_tkip.c': [
        'BSD (3 clause) GPL (v2)'
    ],
    'epan/crypt/dot11decrypt_ws.h': [
        'BSD (3 clause) GPL (v2)'
    ],
    'epan/crypt/wep-wpadefs.h': [
        'BSD (3 clause) GPL (v2)'
    ],
    'epan/crypt/dot11decrypt_system.h': [
        'BSD (3 clause) GPL (v2)'
    ],
    'epan/crypt/dot11decrypt_user.h': [
        'BSD (3 clause) GPL (v2)'
    ],
    'epan/crypt/dot11decrypt_ccmp.c': [
        'BSD (3 clause) GPL (v2)'
    ],
    'epan/crypt/dot11decrypt_int.h': [
        'BSD (3 clause) GPL (v2)'
    ],
    'epan/crypt/dot11decrypt.c': [
        'BSD (3 clause) GPL (v2)'
    ],
    'epan/crypt/dot11decrypt_debug.h': [
        'BSD (3 clause) GPL (v2)'
    ],
    'wsutil/dot11decrypt_wep.c': [
        'BSD (3 clause) GPL (v2)'
    ];
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("FAILED")
    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

    if license in WHITELISTED_LICENSES:
continue

if not options.ignore_suppressions:
    found_path_specific = False
for prefix in PATH_SPECIFIC_WHITELISTED_LICENSES:
    if (filename.startswith(prefix) and
            license in PATH_SPECIFIC_WHITELISTED_LICENSES[prefix]):
        found_path_specific = True
        break
if found_path_specific:
    continue

reason = "'%s' has non-whitelisted license '%s'" % (filename, license)
success = False
print(reason)
exit_status = 1

if success:
    print("\nSUCCESS\n")
    return 0
else:
    print("\nFAILED\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())

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Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD

========================================================================
1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user
1. Extra packages required

Wireshark requires a number of additional programs to function. Install the latest versions of the following programs before compiling:

The easiest way to install these is by using your operating system's ports or packages system. If you prefer to build from source, the programs can be found at the following sites:

- **glib 2.16 or later:**

- **pkgconfig:**
  - [http://pkgconfig.freedesktop.org/releases/](http://pkgconfig.freedesktop.org/releases/)

- **python 2.5 or later:**
  - [https://www.python.org/downloads/source/](https://www.python.org/downloads/source/)

If you want to use the Wireshark GUI, install one or both of these toolkits:

- **gtk+ 2.12 or later:**

- **Qt 4.7 or later:**
  - [http://download.qt-project.org/official_releases/qt/](http://download.qt-project.org/official_releases/qt/)

(These programs may require additional dependencies)

Additional programs can be used to enhance Wireshark's functionality. These can be found by typing ./configure --help or looking at the output at the end of running the configure script.

2. Compiling Wireshark

To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

```
./configure
make
make install
```

The configure and make steps can be run as a non-root user and you can
run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement
--------------------------------------------
In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

```
ls -l /dev/bpf*
```

You should see one or more bpf devices listed similar to this:

```
crw------ 1 root wheel 0, 90 Aug 10 21:05 /dev/bpf0
crw------ 1 root wheel 0, 91 Aug 10 21:05 /dev/bpf1
```

Packet-capturing programs will pick the first bpf device that's not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

4. Running wireshark as a non-root user
-------------------------------------------
Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s). If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

```
[localrules=10]
add path "bpf*" {mode and permissions}

where "mode and permissions" can include clauses such as

mode {octal permissions}
```
to set the permissions on the device (e.g., "mode 0660" to set the permissions to rw-rw-r--),

user {user}

to set the user who owns the device, or

group {group}

to set the group that owns the device and adding a line such as

devfs_system_ruleset=localrules

to /etc/rc.conf. For example, an /etc/devfs.rules file with

[localrules=10]
add path 'bpf*' mode 0660 group wheel

will grant read and write permissions on all BPF devices to all users in the "wheel" group.

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 *
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Description: Change location of license file in about dialog
Forwarded: not-needed
Author: Frederic Peters <fpeters@debian.org>

--- a/ui/gtk/about_dlg.c
+++ b/ui/gtk/about_dlg.c
@@ -522,7 +522,7 @@
 #if defined(_WIN32)
   absolute_path = get_datafile_path("COPYING.txt");
 #else
- absolute_path = get_datafile_path("COPYING");
+ absolute_path = get_datafile_path("ABOUT.GPL");
 #endif
   page = text_page_new(absolute_path);

--- a/ui/qt/about_dialog.cpp
+++ b/ui/qt/about_dialog.cpp
@@ -335,7 +335,7 @@
 #if defined(_WIN32)
   f_license.setFileName(get_datafile_path("COPYING.txt"));
 #endif
#else
- f_license.setFileName(get_datafile_path("COPYING"));
+ f_license.setFileName(get_datafile_path("ABOUT.GPL"));
#endif

f_license.open(QFile::ReadOnly | QFile::Text);

1.373 dpdk 18.02.2

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1.374 grpc-go 1.4.0 r0

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1.375 curl 7.65.3

1.375.1 Available under license:

License Mixing

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

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

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## OpenLDAP

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## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.376 python-pycparser 2.18 r0
1.376.1 Available under license :
   pycparser -- A C parser in Python

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1.377 selinux-sandbox 2.8 r0
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1.378 ini-parser 2.8

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1.379 iperf2 2.0.10 r0

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1.380 pam-radius 1.3.17

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1.383 python-zipp 0.6.0 r0
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1.385 boost 1.66.0

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1.386 dosfs-tools 4.1

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/* io.h - Virtual disk input/output

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1.388 atf-v1-2-marvell-patches 17.01.0

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

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:
#!/usr/bin/perl -0777 -pi

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

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use strict;
use warnings;

my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/\d{4}$/)
my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
$this_year = $year + 1900;
}
my $old_re = <<'EOF'
(?

BEFORE
(?:
  b4_copyright\[^[^\]\]*
   | m4_[?:push|pop]def(\[b4_copyright_years]
  )
#AFTER
)

:EOF
;

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

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

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

# Prepare for the next search.
pos () = $start + length ($b4_copyright_line$year_lines_new); while (/\bb4_copyright\//g)
{
  my $start = pos () - length ($1);
  my $end = pos ();
my $re = $old_re;
pos () = $start;
$re =~ s/#BEFORE/\G/;
if (!/$re/x)
{
  my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
  print STDERR
    "$ARGV:$line: warning: failed to update a b4_copyright\n";
}
pos () = $end;
}

while (/(/b4_copyright_years)/g)
{
  my $start = pos () - length ($1);
  my $end = pos ();
  my $re = $old_re;
  $re =~ s/#AFTER/\G/;
  if (!/$re/x)
  {
    # The substr operation blows away pos (), so restoring pos ()
    # at the end is necessary.
    my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
    print STDERR
      "$ARGV:$line: warning: failed to update a"
    . " b4_copyright_years\n";
  }
pos () = $end;
}

1.390 libwebsockets 2.1.0
1.390.1 Available under license :

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Library General Public License (LGPL) 2.1, with the following exceptions:

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Relicensed to libwebsocket license

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- lib/daemonize.c     - relicensed from Public Domain to LGPL2.1+SLE, link to original Public Domain version

Public Domain (CC-zero) to simplify reuse

- test-server/*.
- test-server/*.h
- lwsws/*

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Version 2.1, February 1999

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1.391 python3-pytest 5.1.3 r0

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1.392 ncurses 6.1+20190803 r0
1.392.1 Available under license :
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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```
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```

1.393 pcre 8.41

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THE BASIC LIBRARY FUNCTIONS

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PCRE JUST-IN-TIME COMPILATION SUPPORT

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

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1.394 libgpiod 1.4.1 r0
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1.397 python3-pyudev 0.21.0 r0

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

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root function must still compute square roots.)

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DRuntime: Runtime Library for the D Programming Language
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(principal original author of dtc and libfdt)
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// License information for the exposed API.
//
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  *
  * September 1993, Stig Thoromodsrud
  *
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1.432 libmbim 1.18.0 r0

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1.434 go-systemd 4 r0

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1.435 libgudev 232 r0

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

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

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

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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@(#)mman.h 8.2 (Berkeley) 1/9/95 */
define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

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

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@(#)mman.h 8.1 (Berkeley) 6/2/93 */
define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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

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

#define TARGET_EPERM    1  /**< Operation not permitted */
#define TARGET_ENOENT   2  /**< No such file or directory */
#define TARGET_ESRCH    3  /**< No such process */
#define TARGET_EINTR    4  /**< Interrupted system call */
#define TARGET_EIO      5  /**< Input/output error */
#define TARGET_ENXIO    6  /**< Device not configured */
#define TARGET_E2BIG    7  /**< Argument list too long */
#define TARGET_ENOEXEC  8  /**< Exec format error */
#define TARGET_EBADF    9  /**< Bad file descriptor */
#define TARGET_ECHILD   10 /**< No child processes */
#define TARGET_EDEADLK  11 /**< Resource deadlock avoided */
/* 11 was EAGAIN */
#define TARGET_ENOMEM   12 /**< Cannot allocate memory */
#define TARGET_EACCES   13 /**< Permission denied */
#define TARGET_EFAULT   14 /**< Bad address */
#define TARGET_ENOTBLK  15 /**< Block device required */
#define TARGET_EBUSY    16 /**< Device busy */
#define TARGET_EEXIST   17 /**< File exists */
#define TARGET_EXDEV    18 /**< Cross-device link */
#define TARGET_ENODEV   19 /**< Operation not supported by device */
#define TARGET_ENOTDIR  20 /**< Not a directory */
#define TARGET_EISDIR   21 /**< Is a directory */
#define TARGET EINVAL    22 /**< Invalid argument */
#define TARGET_ENFILE   23 /**< Too many open files in system */
#define TARGET_EMFILE   24 /**< Too many open files */
#define TARGET_ENOTTY   25 /**< Inappropriate ioctl for device */
#define TARGET_ETXTBSY  26 /**< Text file busy */
#define TARGET_EFBIG    27 /**< File too large */
#define TARGET_ENOSPC   28 /**< No space left on device */
#define TARGET_ESPIPE   29 /**< Illegal seek */
#define TARGET_EROFS    30 /**< Read-only file system */
#define TARGET_EMLINK   31 /**< Too many links */
#define TARGET_EPIPE    32 /**< Broken pipe */
/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

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

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMESGSIZE 40 /* Message too long */
#define TARGET_EPROTO>Type 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_ENOTSOCK 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */

#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGETENAME_TOO_LONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
/* Network File System */
#define TARGET_EUSERS  68  /* Too many users */
#define TARGET_EDQUOT  69  /* Disk quota exceeded */

#define TARGET_ESTALE  70  /* Stale NFS file handle */
#define TARGET_EREMOTE  71  /* Too many levels of remote in path */
#define TARGET_EBADRPC  72  /* RPC struct is bad */
#define TARGET_ERPCMISMATCH  73  /* RPC version wrong */
#define TARGET_EPROGUNAVAIL  74  /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH  75  /* Program version wrong */
#define TARGET_EPROCUNAVAIL  76  /* Bad procedure for program */

#define TARGET_ENOLCK  77  /* No locks available */
#define TARGET_ENOSYS  78  /* Function not implemented */

#define TARGET_EFTYPE  79  /* Inappropriate file type or format */
#define TARGET_EAUTH  80  /* Authentication error */
#define TARGET_ENEEDAUTH  81  /* Need authenticator */
#define TARGET_EIPSEC  82  /* IPsec processing failure */
#define TARGET_ENOATTR  83  /* Attribute not found */
#define TARGET_EILSEQ  84  /* Illegal byte sequence */
#define TARGET_ENOMEDIUM  85  /* No medium found */
#define TARGET_EMEDIUMTYPE  86  /* Wrong Medium Type */
#define TARGET_EOVERFLOW  87  /* Conversion overflow */
#define TARGET_ECANCELED  88  /* Operation canceled */
#define TARGET_EIDRM  89  /* Identifier removed */
#define TARGET_ENOMSG  90  /* No message of desired type */
#define TARGET_ELAST  90  /* Must be equal largest errno */

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```c
{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR__accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlink, "link", "%s("%s",%d)" ), NULL, NULL },
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{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR-unlockall, "unlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR-munmap, "munmap", "%s(%#p,%#d)" ), NULL, NULL },
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{ TARGET_FREEBSD_NR-openat, "openat", "%s(%#d,%"%s",%#x,%#o)" ), NULL, NULL },
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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd ..  ; done; pwd)
xexport TOP
endif
include $(TOP)/make.rules

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

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

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

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

ROOTDIR ?= ../../..

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

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

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

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

all: libx86emu.a 

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

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

distclean: clean 

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

/* */

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

#define TARGET_OPENBSD_NR_syscall   0
#define TARGET_OPENBSD_NR_exit      1
#define TARGET_OPENBSD_NR_fork      2
#define TARGET_OPENBSD_NR_read      3
#define TARGET_OPENBSD_NR_write     4
#define TARGET_OPENBSD_NR_open      5
#define TARGET_OPENBSD_NR_wait4     7
#define TARGET_OPENBSD_NR_link      9
#define TARGET_OPENBSD_NR_unlink    10
#define TARGET_OPENBSD_NR_chdir     12
#define TARGET_OPENBSD_NR_fchdir    13
#define TARGET_OPENBSD_NR_mknod     14
#define TARGET_OPENBSD_NR_chmod     15
#define TARGET_OPENBSD_NR_chown     16
#define TARGET_OPENBSD_NR_break     17
#define TARGET_OPENBSD_NR_getpid    20
#define TARGET_OPENBSD_NR_mount     21
#define TARGET_OPENBSD_NR_unmount   22
#define TARGET_OPENBSD_NR_setuid    23
#define TARGET_OPENBSD_NR_getuid    24
#define TARGET_OPENBSD_NR_geteuid   25
#define TARGET_OPENBSD_NR_ptrace    26
#define TARGET_OPENBSD_NR_revcmsg   27
#define TARGET_OPENBSD_NR_sendmsg   28
#define TARGET_OPENBSD_NR_recvfrom  29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgid 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segmentv 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_munlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_utimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspioctl 208
#define TARGET_OPENBSD_NR_segmget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeerid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_signalstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_thresexit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fhstatfs 308
#define TARGET_OPENBSD_NR_fstatfs 309

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

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

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 * *
 */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400 /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800 /* use %g7 as above (deprecated) */
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/*
 * System call numbers.
 * created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_o creat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
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/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink    10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid    20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount    22
#define TARGET_FREEBSD_NR_setuid     23
#define TARGET_FREEBSD_NR_getuid     24
#define TARGET_FREEBSD_NR_geteuid    25
#define TARGET_FREEBSD_NR_ptrace     26
#define TARGET_FREEBSD_NR_recvmsg    27
#define TARGET_FREEBSD_NR_sendmsg    28
#define TARGET_FREEBSD_NR_recvfrom   29
#define TARGET_FREEBSD_NR_accept     30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access     33
#define TARGET_FREEBSD_NR_chflags    34
#define TARGET_FREEBSD_NR_fchflags   35
#define TARGET_FREEBSD_NR_sync       36
#define TARGET_FREEBSD_NR_kill       37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid    39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup        41
#define TARGET_FREEBSD_NR_pipe       42
#define TARGET_FREEBSD_NR_getegid    43
#define TARGET_FREEBSD_NR_profil     44
#define TARGET_FREEBSD_NR_ktrace     45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid     47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin   49
#define TARGET_FREEBSD_NR_setlogin   50
#define TARGET_FREEBSD_NR_acct       51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl      54
#define TARGET_FREEBSD_NR_reboot     55
#define TARGET_FREEBSD_NR_revoke     56
#define TARGET_FREEBSD_NR_symlink    57
#define TARGET_FREEBSD_NR_readlink   58
#define TARGET_FREEBSD_NR_execve     59
#define TARGET_FREEBSD_NR_umask      60
#define TARGET_FREEBSD_NR_chroot     61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync      65
#define TARGET_FREEBSD_NR_vfork      66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk       69
#define TARGET_FREEBSD_NR_sstk 70
    /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
    /* 76 is obsolete vhangup */
    /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
    /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
    /* 87 is old gethostname */
    /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
    /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
    /* 101 is old send */
    /* 102 is old recv */
    /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
    /* 107 is obsolete vtimes */
    /* 108 is old sigvec */
    /* 109 is old sigblock */
    /* 110 is old sigsetmask */
    /* 111 is old sigsuspend */
    /* 112 is old sigstack */
    /* 113 is old recvmsg */
    /* 114 is old sendmsg */
    /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
  /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
  /* 129 is old truncate */
  /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
  /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 139
  /* 140 is old getpeername */
  /* 141 is old gethostid */
  /* 142 is old gethostid */
  /* 143 is old sethostid */
  /* 144 is old getrlimit */
  /* 145 is old setrlimit */
  /* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
  /* 149 is old quota */
  /* 150 is old gethostname */
#define TARGET_FREEBSD_NR_nlm_syscall 151
#define TARGET_FREEBSD_NR_nfssvc 152
  /* 153 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 154
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 155
  /* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 159
#define TARGET_FREEBSD_NR_getfh 160
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 161
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 164
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 165
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 166
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 167
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 168
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 169
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 170
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 171
#define TARGET_FREEBSD_NR_freebsd6_pread 172
#define TARGET_FREEBSD_NR_freebsd6_pwrite 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib    175
#define TARGET_FREEBSD_NR_ntp_adjtime   176
#define TARGET_FREEBSD_NR_setgid    181
#define TARGET_FREEBSD_NR_setegid   182
#define TARGET_FREEBSD_NR_seteuid   183
#define TARGET_FREEBSD_NR_stat  188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf  191
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6___syscall 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6___sysct 197
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock   204
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR___semctl 198
#define TARGET_FREEBSD_NR_freebsd7_msgctl   224
#define TARGET_FREEBSD_NR_msgget    225
#define TARGET_FREEBSD_NR_msgsnd    226
#define TARGET_FREEBSD_NR_msgrcv    227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7___semct 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget    231
#define TARGET_FREEBSD_NR__clock_gettime 232
#define TARGET_FREEBSD_NR__clock_settime 233
#define TARGET_FREEBSD_NR__clock_getres 234
#define TARGET_FREEBSD_NR__ktimer_create 235
#define TARGET_FREEBSD_NR__ktimer_delete 236
#define TARGET_FREEBSD_NR__ktimer_settime 237
#define TARGET_FREEBSD_NR__ktimer_gettime 238
#define TARGET_FREEBSD_NR__ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_minherit  250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_isetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchown 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_lstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfnext 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler    329
#define TARGET_FREEBSD_NR_sched_getscheduler    330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max    332
#define TARGET_FREEBSD_NR_sched_get_priority_min    333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_ute 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction    342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_set_fd 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_extattr_delete_fd 359
#define TARGET_FREEBSD_NR___setugid 360
#define TARGET_FREEBSD_NR_eaccess 361
#define TARGET_FREEBSD_NR___mac_get_proc 362
#define TARGET_FREEBSD_NR___mac_set_proc 363
#define TARGET_FREEBSD_NR___mac_get_file 364
#define TARGET_FREEBSD_NR___mac_set_file 365
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunload 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_futimesat 493
#define TARGET_FREEBSD_NR_fstatat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 521
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct 525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
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References

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

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

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\\ * This program and the accompanying materials
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\\ * http://www.opensource.org/licenses/bsd-license.php
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-- Wolfgang Denk

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SPDX-License-Identifier:GPL-2.0+

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```
SPDX-License-Identifier:GPL-2.0+BSD-3-Clause
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you can choose between GPL-2.0+ and BSD-3-Clause licensing.

We use the SPDX Unique License Identifiers here; these are available at [2].


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Version 2.1, February 1999

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

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Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+, this does *not* cover the so-called "standalone" applications that use U-Boot services by means of the jump table provided by U-Boot exactly for this purpose - this is merely considered normal use of U-Boot, and does *not* fall under the heading of "derived work".
The header files "include/image.h" and "arch/*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *not* fall under the heading of "derived work".
-- Wolfgang Denk

Index: debug.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000
+++ debug.c 15 Jan 2008 13:49:25 -0000
@@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void)
 {
     if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
     }
     if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
         printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
 for (i=0; i< M.x86.enc_pos; i++) {
     sprintf(buf1+2*i, "%02x", fetch_data_byte_abs(s,o+i));
 } - printk("%-20s",buf1); 
+ printk("%-20s ",buf1); 
}

static void print_decoded_instruction (void)

Index: ops2.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000
+++ ops2.c 20 Mar 2008 15:48:34 -0000
@@ -149,8 +149,69 @@
 target += (s16) M.x86.R_IP;
 DECODE_PRINTF2("%04x\n", target);
 TRACE_AND_STEP();
-    if (cond)
+

if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+
case 0xc8:
+
DECODE_PRINTF("EAX\n");
+
M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+
break;
+
case 0xc9:
+
DECODE_PRINTF("ECX\n");
+
M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+
break;
+
case 0xca:
+
DECODE_PRINTF("EDX\n");
+
M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+
break;
+
case 0xcb:
+
DECODE_PRINTF("EBX\n");
+
M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+
break;
+
case 0xcc:
+
DECODE_PRINTF("ESP\n");
+
M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);

Open Source Used In Polaris_MR_Releases 17.3.4 5175


+ break;
+ case 0xcd:
+   DECODE_PRINTF("EBP\n");
+   M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+   break;
+ case 0xce:
+   DECODE_PRINTF("ESI\n");
+   M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+   break;
+ case 0xcf:
+   DECODE_PRINTF("EDI\n");
+   M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+ break;
+ }
+ TRACE_AND_STEP();
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@ /*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,
*/  0xd0 */ x86emuOp2_illegal_op,
*/  0xd1 */ x86emuOp2_illegal_op,
@@ -1061,7 +1061,11 @@
  
    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\%d
", imm);
-       push_word(imm);
+       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+           push_long(imm);
+       } else {
+           push_word(imm);
+       }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
              target = (u16)(M.x86.R_IP + (s16)offset);
              DECODE_PRINTF2("%x
", target);
              TRACE_AND_STEP();
-       if (cond)
+       if (cond) {
            M.x86.R_IP = target;
+               JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+       }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
 count = 1;
      if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
          /* dont care whether REPE or REPNE */
-             /* move them until cx is ZERO. */
-             count = M.x86.R_CX;
-             /* move them until (e)cx is ZERO. */
+             count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+                 M.x86.R_CX = 0;
+             if (M.x86.mode & SYSMODE_32BIT_REP)
+                 M.x86.R_ECX = 0;
+                 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
           }
       while (count--) {
@@ -2526,6 +2534,8 @@
           store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
           M.x86.R_SI += inc;
           M.x86.R_DI += inc;
+               if (M.x86.intr & INTR_HALTED)
+                   break;
       }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP)? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP)? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
        }
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {

TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        }
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
        }
        -        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        count = M.x86.R_CX;
        if (M.x86.R_CX != 0) {
            M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
        } else {
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
            break;
        }
    } else {
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
        while (count--) {
            store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
        }
        M.x86.R_DI += inc;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        count = M.x86.R_CX;
        if (M.x86.R_CX != 0) {
            M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
        } else {
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
            break;
        }
    } else {
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
        while (count--) {
            store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
        }
        M.x86.R_DI += inc;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
    }
/* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+ M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
  + M.x86.R_ECX = 0;
+ M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}  
while (count--) {
  M.x86.R_AX = fetch_data_word(M.x86.R_SI);
}  
M.x86.R_SI += inc;
+ if (M.x86.intr & INTR_HALTED)
  + break;
  }
  DECODE_CLEAR_SEG_OVR();
  END_OF_INSTR();
  inc = 1;
  if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      val2 = fetch_data_byte_M.x86.R_ES, M.x86.R_DI);
      cmp_bytes(M.x86.R_AL, val2);
      - M.x86.R_CX -= 1;
      + if (M.x86.mode & SYSMODE_32BIT_REP)
      + M.x86.R_ECX -= 1;
      + else
      + M.x86.R_CX -= 1;
      M.x86.R_DI += inc;
      if (ACCESS_FLAG(F_ZF) == 0)
        break;
      + if (M.x86.intr & INTR_HALTED)
        break;
    }  
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
  } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      val2 = fetch_data_byte_M.x86.R_ES, M.x86.R_DI);
      cmp_bytes(M.x86.R_AL, val2);
      - M.x86.R_CX -= 1;
      + if (M.x86.mode & SYSMODE_32BIT_REP)
      + M.x86.R_ECX -= 1;
      + else
      + M.x86.R_CX -= 1;
      M.x86.R_DI += inc;
      if (ACCESS_FLAG(F_ZF) == 0)
        break;
      + if (M.x86.intr & INTR_HALTED)
        break;
    }  
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
  }
cmp_byte(M.x86.R_AL, val2);
-   M.x86.R_CX -= 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
    break; /* zero flag set means equal */
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
TRACE_AND_STEP();
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
  /* REPE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
}
-   M.x86.R_CX -= 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF) == 0)
    break;
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
  /* REPNE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
cmp_long(M.x86.R_EAX, val);
@@ -2977,10 +3034,15 @@
val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
cmp_word(M.x86.R_AX, (u16)val);
}
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
    break;  /* zero flag set means equal */
+            if (M.x86.intr & INTR_HALTED)
+                break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETFn");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACe_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();}
@@ -4020,8 +4082,11 @@
{ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
      M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
{ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
      M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
  + M.x86.RxECX -= 1;
+ else
  + M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R(ECX : M.x86.R_CX) != 0)  /* (E)CX != 0 */
  M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
  M.x86.R_IP = target;
+  }  
+  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
  ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+  JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR ");
TRACE_AND_STEP();
  M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x": cs);
DECODE_PRINTF2("%04x\n", ip);
+  JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
  M.x86.R_IP = ip;
  M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
  offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+  JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
  M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
    case 4: /* jmp word ptr ... */
    destval = fetch_data_word(destoffset);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;
    case 5: /* jmp far ptr ... */
    destval = fetch_data_word(destoffset);
    destval2 = fetch_data_word(destoffset + 2);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c7 Sep 2007 10:01:21 -0000
+++ prim_ops.c16 Jan 2008 14:18:15 -0000
@@ -1921,7 +1921,7 @@
     imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
 {                     
 #ifdef __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

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

M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000
+++ sys.c 7 Sep 2007 10:03:13 -0000
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{ DB(if (DEBUG_IO_TRACE()))
 printk("inb %#04x \n", addr);
 -return inb(addr);
 +return 0;
 }

/******************************************************************
@@ -235,7 +230,7 @@
{ DB(if (DEBUG_IO_TRACE()))
 printk("inw %#04x \n", addr);
 -return inw(addr);
 +return 0;
 }

/**************************************************************************
@@ -250,7 +245,7 @@
{ DB(if (DEBUG_IO_TRACE()))
 printk("inl %#04x \n", addr);
 -return inl(addr);
 +return 0;
 }

/**************************************************************************
@@ -265,7 +260,7 @@
{ DB(if (DEBUG_IO_TRACE()))
 printk("iret \n", addr);
 -return iret(addr);
 +return 0;
 }
>This is a code snippet from the file `debug.h`. It contains definitions for debugging functions related to outputting values to memory locations.

```c
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}
```

The RCS file information indicates that this file has been updated multiple times, with the latest revision being 1.4. The file is part of the OSDF project, which is a collection of various software libraries and tools.
/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
#define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
#define DEBUG_SYSINT()        0
#define DEBUG_TRACECALL()     0
#define DEBUG_TRACECALLREGS() 0
+#define DEBUG_TRACEJMP()       0
+#define DEBUG_TRACEJMPREGS()   0
#define DEBUG_SYS()           0
#define DEBUG_MEM_TRACE()     0
#define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
    x86emu_dump_regs();                                     
    if (DEBUG_TRACECALL())                                     
    printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)                                    
    if (DEBUG_TRACECALLREGS())									
    x86emu_dump_regs();                                     
    if (DEBUG_TRACECALL())                                     
    printk("%04x:%04x: %s
",u,v,n);
-println("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)                    
    +  x86emu_dump_regs();\
    +  if (DEBUG_TRACEJMPREGS())\
    +   x86emu_dump_regs();\
    +   if (DEBUG_TRACEJMP())\
    +   printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
    # define CALL_TRACE(u,v,w,x,s)
    -# define RETURN_TRACE(n,u,v)
    +# define RETURN_TRACE(u,v,w,x,s)
    +# define JMP_TRACE(u,v,w,x,s)
#endif
#endif DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+  // phueper: for REP(E|NE) Instructions, we need to decide whether it should be using
+  // the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
SYSMODE_SEGOVR_GS | \nSYSMODE_SEGOVR_SS | \nSYSMODE_PREFIX_DATA | \n- SYSMODE_PREFIX_ADDR)
+ SYSMODE_PREFIX_ADDR | \n+ SYSMODE_32BIT_REP)
#define INTR_SYNCH 0x1
#define INTRASYNCH 0x2
@@ -274,9 +278,9 @@
*/
    u32 mode;
    volatile int intr; /* mask of pending interrupts */
-#ifdef DEBUG
+    int debug;
+    volatile int debug;
#define printk(x...) printk(BIOS_DEBUG, x)
```c
#include <stdio.h>
#define printk printf
#endif

#define DEBUG_TRACECALL_REGS_F   0x004000
#define DEBUG_DECODE_NOPRINT_F   0x008000
#define DEBUG_SAVE_IP_CS_F       0x010000
#define DEBUG_TRACEJMP_F         0x020000
#define DEBUG_TRACEJMP_REGS_F    0x040000
#define DEBUG_SYS_F              (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
#endif
#endif /* __X86EMU_X86EMU_H */

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# *
# * Contributors:
# * IBM Corporation - initial implementation
#*******************************************************************************/

#!/bin/bash
#set -x
#set -e

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

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

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

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

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

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

echo "Copying files..."

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

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

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus was licensed under the Python license. Same license applies to all files in the argparse package project.

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History
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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/ii.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detal/io.hpp, atf-c++/detal/io.cpp, atf-c++/detal/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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Gocheck - A rich testing framework for Go

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1.445 bc 1.06

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   */

#undef UV_BSD_H
#define UV_BSD_H
#define UV_PLATFORM_FS_EVENT_FIELDS
uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
int rcount;
int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

Files: *

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1.453 pango 1.44.6 r0

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1.461 tpm-tools 1.3.8 6.el7

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1.462 coreutils 8.30 r0

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1.464 open-vm-tools 10.0.7 r0

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Open-vm-tools v10.0.7

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>>> convertutf.c/.h from unicode, inc.-none
>>> freebsd-1.72
>>> icu4c-4.4.1
>>> unicode-5.0

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> convertutf.c/.h from unicode, inc.-none

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>>> icu4c-4.4.1

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1.467 bzip2 1.0.8 r0

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.468 libcap 2.27 r0
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1.474 gobi-drivers SWI_2.25
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/*===========================================================================
FILE:
GobiUSBNet.c

DESCRIPTION:
Qualcomm USB Network device for Gobi 3000

FUNCTIONS:
GobiNetSuspend
GobiNetResume
GobiNetDriverBind
GobiNetDriverUnbind
GobiUSBNetURBCallback
GobiUSBNetTXTimeout
GobiUSBNetAutoPMTThread
GobiUSBNetStartXmit
GobiUSBNetOpen
GobiUSBNetStop
/*===========================================================================

Open Source Used In Polaris_MR_Releases 17.3.4 5616
GobiUSBNetProbe
GobiUSBNetModInit
GobiUSBNetModExit

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/*===========================================================================
FILE:
GobiSerial.c

DESCRIPTION:
Linux Qualcomm Serial USB driver Implementation

PUBLIC DRIVER FUNCTIONS:
  GobiProbe
  GobiOpen
  GobiClose
  GobiReadBulkCallback
  GobiSerialSuspend
  GobiSerialResume (if kernel is less than 2.6.24)

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goproperties - properties file decoder for Go

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Gocheck - A rich testing framework for Go

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

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1.486 acpid 2.0.28

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional; if the application does not supply it, the square root function must still compute square roots.)
@end enumerate

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

@end enumerate

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

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

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

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

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

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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

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

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@end example

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

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

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

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end example

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   /* setjmp is implemented in setjmp.S */

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

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

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

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

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

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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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
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user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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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,
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c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
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1.495 python-setuptools 40.0.0 r0

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1.497 libcap-ng 0.7.9 r0

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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 $@ $<
```

Open Source Used In Polaris_MR_Releases 17.3.4 5910
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1.507 libdaemon 0.14 r0

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1.509 python-six 1.11.0
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A. HISTORY OF THE SOFTWARE

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

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

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

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<th>Year</th>
<th>Owner</th>
<th>GPL-compatible?</th>
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*******************
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*******************

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

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
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Mersenne Twister

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

The :mod:`random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

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

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

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Sockets
------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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Execution tracing

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

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

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test_epoll

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Select kqueue
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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 `Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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zlib
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cfuhash
-------
The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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ifndef __LICENSE_H
#define __LICENSE_H

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

/* 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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- Michael Hunold <m.hunold@gmx.de>
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- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

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Version: 1.1.2
1.515 mailx 12.5-5 r0

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 * imap_gssapi.c is partially derived from sample code in:
 * GSS-API Programming Guide
 * Part No: 816-1331-11
 * Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.
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Network Working Group    H. Krawczyk
Request for Comments: 2104    IBM
Category: Informational    M. Bellare
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February 1997

HMAC: Keyed-Hashing for Message Authentication

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

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

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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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This is the Debian GNU/Linux prepackaged version of lrzsz.

This package was put together by Uwe Ohse <uwe@ohse.de>. I don't really know how to handle debian packages, so don't be surprised if something is wrong.

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1.521 pyasn1 0.4.2

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
-----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing...
That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
bash
Record ::= SEQUENCE {
    id        INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType('room', Integer()).subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 0)),
        DefaultedNamedType('house', Integer(0).subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 1)))
    )
```

```
It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 ‘SET’ is similar to Python ‘dict’, ‘SET OF’ to ‘list’):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 02 01 41
```
The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected,
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python
Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions` on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` or `FlatBuffers`, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic
to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

Use case

http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1
Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

License
-------

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Getting help
-------------


Books on ASN.1
---------------

The pyasn1 implementation is largely based on reading up the following awesome
books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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

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

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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 the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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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".

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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:$BSDLIB

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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(tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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1.532 gflags 2.2.0 r0

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1.533 ca-certificates 20170717

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(1) rusers (netkit)

rstat_proc.c

(2) krb5

authunix_prot.c
bindresvport.c
clntr_generic.c
clntr_perror.c
clntr_simple.c
get_myaddress.c
getrpcent.c
pmap_getmaps.c
pmap_getport.c
rpc_callmsg.c
rpc_commondata.c
rpc_dtablesize.c
svc_auth_unix.c
types.h
xdr_alloc.c
xdr_reference.c

possibly also the following :
include/gssrpc/auth.h

include/gssrpc/auth_unix.h

include/gssrpc/clnt.h
include/gssrpc/netdb.h

include/gssrpc/pmap_clnt.h
include/gssrpc/pmap_prot.h

include/gssrpc/pmap_rmt.h
include/gssrpc/rpc.h

include/gssrpc/rpc_msg.h
include/gssrpc/svc_auth.h
include/gssrpc/svc.h
include/gssrpc/types.h
include/gssrpc/xdr.h
kadmin/server/ovsec_kadmd.c

lib/rpc/auth_none.c
lib/rpc/auth_unix.c

lib/rpc/authunix_prot.c
lib/rpc/bindresvport.c

lib/rpc/clnt_generic.c
lib/rpc/clnt_perror.c

lib/rpc/clnt_raw.c
lib/rpc/clnt_simple.c
lib/rpc/clnt_tcp.c

lib/rpc/clnt_udp.c
lib/rpc/get_myaddress.c

lib/rpc/getrpccent.c
lib/rpc/getrpcport.c
lib/rpc/pmap_clnt.c

lib/rpc/pmap_getmaps.c
lib/rpc/pmap_getport.c

lib/rpc/pmap_prot2.c
lib/rpc/pmap_prot.c
lib/rpc/pmap_rmt.c

lib/rpc/rpc_callmsg.c
lib/rpc/rpc_commondata.c

lib/rpc/rpc_dtablesize.c
lib/rpc/rpc_prot.c

lib/rpc/svc_auth.c
lib/rpc/svc_auth_unix.c
lib/rpc/svc.c

lib/rpc/svc_raw.c
lib/rpc/svc_run.c
lib/rpc/svc_simple.c

lib/rpc/svc_tcp.c
lib/rpc/svc_udp.c
lib/rpc/unit-test/server.c
lib/rpc/xdr_alloc.c

lib/rpc/xdr_array.c
lib/rpc/xdr.c
lib/rpc/xdr_float.c

lib/rpc/xdr_mem.c
lib/rpc/xdr_rec.c
lib/rpc/xdr_reference.c

lib/rpc/xdr_sizeof.c
lib/rpc/xdr_stdio.c

(3) glibc
auth_des.c
authdes_prot.c
auth.h
auth_none.c
auth_unix.c
auth_unix.h
authuxprot.c
bindrsvp.rt.c
bootparam_prot.x
clnt_gen.c
clnt.h
clnt_perr.c
clnt_raw.c
clnt_simp.c
clnt_tcp.c
clnt_udp.c
clnt_unix.c
des_crypt.c
des_crypt.h
des_soft.c
get_myaddr.c
getrpcport.c
key_call.c
key_prot.c
key_prot.h
key_prot.x
klm_prot.x
mount.x
svc_simple.c
svc_tcp.c
svc_udp.c
svc_unix.c
types.h
xcrypt.c
xdr_array.c
xdr.c
xdr_float.c
xdr.h
xdr_mem.c
xdr_rec.c
xdr_ref.c
xdr_sizeof.c
xdr_stdio.c
yppassword.x

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Linux and Virtualization Engineering
Oracle Corporation

1.535 python-attrs 19.2.0 r0

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

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

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Mersenne Twister
-------------

The :mod:`random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

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

Before using, initialize the state by using 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
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)
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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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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1.542 go-mux git r0

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1.543 systemd-conf 1.0 r0

1.544 unzip 6.0 r5

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____________________
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____________________
There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware): Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.
All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/"), Steve P. Miller (Pocket UnZip GUI "wince/"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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*  
* A collection of File Manager and related routines
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* MacBinaryIII.h
*
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* 
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* .................................................................
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* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?)(subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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more complete list of contributors.
The decompression core code for the deflate method (infla[.]ch,
explode.c) was originally written by Mark Adler who submitted it
as public domain code.

--------------------------------------------------------------------------
1.545 idna 2.2

1.546 libdnet 1.12
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 *
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1.548 python-six 1.11.0 r0

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1.549 eudev 3.2.5

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1.550 rrdtool 1.7.0 r0
1.551 go git r0

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1.552 perl 5.24.4 r0

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+ many more (please mail me if you are missing in this list and would like to be mentioned)

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Appendix: How to Apply These Terms to Your New Libraries

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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 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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single nxt200x frontend driver.

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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 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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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.

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

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (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
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Installation
------------
``certifi`` is available on PyPI. Simply install it with ```pip```:

$ pip install certifi

Usage
-----
To reference the installed certificate authority (CA) bundle, you can use the
built-in function::

>>> import certifi
Enjoy!

1024-bit Root Certificates
~~~~~~~~~~~~~~~~~~~~~~~~~~

Browsers and certificate authorities have concluded that 1024-bit keys are unacceptably weak for certificates, particularly root certificates. For this reason, Mozilla has removed any weak (i.e. 1024-bit key) certificate from its bundle, replacing it with an equivalent strong (i.e. 2048-bit or greater key) certificate from the same CA. Because Mozilla removed these certificates from its bundle, ``certifi`` removed them as well.

In previous versions, ``certifi`` provided the ``certifi.old_where()`` function to intentionally re-add the 1024-bit roots back into your bundle. This was not recommended in production and therefore was removed. To assist in migrating old code, the function ``certifi.old_where()`` continues to exist as an alias of ``certifi.where()``. Please update your code to use ``certifi.where()`` instead. ``certifi.old_where()`` will be removed in 2018.

.. _`Requests`: http://docs.python-requests.org/en/latest/

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1.563 python-setuptools 41.6.0 r0
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1.564 ccid 1.4.30 r0

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Version 2.1, February 1999

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1.568 nghttp2 1.39.2

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1.569 libxml 2.9.8

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1.570 protobuf-c 1.3.1 r0

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1.571 log-rotate 3.13.0

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Version 3, 29 June 2007

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

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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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The following people contributed improvements, fixes, suggestions, and
comments:

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- Scott Tsai (scott.tw@gmail.com) suggested better UUCP_LOCK_DIR definition

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- Salvatore Sanfilippo (https://github.com/antirez) is the author of the linenoise line-editing library. See: https://github.com/antirez/linenoise

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- From Paul Chakravarti's (https://github.com/paulchakravarti) fork originated the idea to add support for disabling the send- and receive-file commands, and for not using the shell when executing external programs (to avoid shell escapes). See: https://github.com/paulchakravarti/picocom-noexec

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1.591 libmnl 1.0.4 r0

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1.592 tirpc 2.3
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To: Peter Brown <peterb@fsf.org>, drepper@redhat.com, tcallawa@redhat.com
CC: Elena Zannoni <elena.zannoni@oracle.com>
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(1) rusers (netkit)

rstat_proc.c

(2) krb5

authunix_prot.c

bindresvport.c
clnet_generic.c
clnet_perror.c
clnet_simple.c
get_myaddress.c
getrpcent.c
pmap_getmaps.c
pmap_getport.c
rpc_callmsg.c
rpc_commondata.c
rpc_dtablesize.c
svc_auth_unix.c
types.h
xdr_alloc.c
xdr_reference.c

possibly also the following:
includergssrpc/auth.h

includergssrpc/auth_unix.h

includergssrpc/clnt.h
includergssrpc/netdb.h

includergssrpc/pmap_clnt.h
includergssrpc/pmap_prot.h

includergssrpc/pmap_rmt.h
includergssrpc/rpc.h

includergssrpc/rpc_msg.h
includergssrpc/svc_auth.h

includergssrpc/svc.h
includergssrpc/types.h

includergssrpc/xdr.h
kadmin/server/ovsec_kadmd.c
lib/rpc/auth_none.c
lib/rpc/auth_unix.c

lib/rpc/authunix_prot.c
lib/rpc/bindresvport.c

lib/rpc/clnt_generic.c
lib/rpc/clnt_perror.c

lib/rpc/clnt_raw.c
lib/rpc/clnt_simple.c
lib/rpc/clnt_tcp.c

lib/rpc/clnt_udp.c
lib/rpc/get_myaddress.c

lib/rpc/getrpcent.c
lib/rpc/getrpcport.c
lib/rpc/pmap_clnt.c

lib/rpc/pmap_getmaps.c
lib/rpc/pmap_getport.c

lib/rpc/pmap_prot2.c
lib/rpc/pmap_prot.c
lib/rpc/pmap_rmt.c

lib/rpc/rpc_callmsg.c
lib/rpc/rpc_commondata.c

lib/rpc/rpc_dtablesize.c
lib/rpc/rpc_prot.c

lib/rpc/svc_auth.c
lib/rpc/svc_auth_unix.c
lib/rpc/svc.c

lib/rpc/svc_raw.c
lib/rpc/svc_run.c
lib/rpc/svc_simple.c

lib/rpc/svc_tcp.c
lib/rpc/svc_udp.c

lib/rpc/unit-test/server.c
lib/rpc/xdr_alloc.c
lib/rpc/xdr_array.c
lib/rpc/xdr.c
lib/rpc/xdr_float.c

lib/rpc/xdr_mem.c
lib/rpc/xdr_rec.c
lib/rpc/xdr_reference.c

lib/rpc/xdr_sizeof.c
lib/rpc/xdr_stdio.c

(3) glibc

auth_des.c
authdes_prot.c
auth.h
auth_none.c
auth_unix.c
auth_unix.h
authuxprot.c
bindrsvprt.c
bootparam_prot.x
clnt_gen.c
clnt.h
clnt_perr.c
clnt_raw.c
clnt_simp.c
clnt_tcp.c
clnt_udp.c
clnt_unix.c
des_crypt.c
des_crypt.h
des_soft.c
get_myaddr.c
gerpcport.c
key_call.c
key_prot.c
key_prot.h
key_prot.x
klm_prot.x
mount.x
netdb.h
nfs_prot.x
nlm_prot.x
openchild.c
pmap_clnt.c
xcrypt.c
xdr_array.c
xdr.c
xdr_float.c
xdr.h
xdr_mem.c
xdr_rec.c
xdr_ref.c
xdr_sizeof.c
xdr_stdio.c
yppasswd.x

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1.597 go-cli 1.1.0 r0

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1.602 python-jsonpatch 1.23

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1.603 opkg-arch-config 1.0 r1

1.604 ncurses 6.1+20180630

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

File: aclocal.m4 package
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```
1.605 grep 3.1 r0
1.605.1 Available under license :

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Version 3, 29 June 2007
```

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/* Written July 1992 by Mike Haertel. */

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@end smallexample

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Version 3, 29 June 2007

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

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Version 2.1, February 1999

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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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Library, but is designed to work with the Library by being compiled or
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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
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that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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distribute the object code for the work under the terms of Section 6.
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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<one line to give the library's name and a brief idea of what it does.>
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
#!/usr/bin/python
#
# Copyright (C) 2013-2018 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#    Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
        return string

    def __call__ (self, fname, string):
        self.report(fname, string)

    def error (self, msg):
        return self.report(None, msg)

    def warn (self, msg):
        return self.report(None, msg)

    def info (self, msg):
        return self.report(None, msg)

    def debug (self, msg):
        return self.report(None, msg)

    def warning (self, msg):
        return self.report(None, msg)

    def error (self, msg):
        return self.report(None, msg)

    def fatal (self, msg):
        return self.report(None, msg)

    def fatal (self, msg):
        return self.report(None, msg)
sys.stderr.write (string + "\n")
self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set (
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltswag.m4',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',

            # Skip FSF mission statement, etc.
        )
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'\t')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors
        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?:-0-9,.\s+and\s+]*[0-9]'
        # Non-whitespace characters in a copyright holder's name.
        name = '[\w.,-]'
        # Matches one year.
        self.year_re = re.compile ('[0-9]+')
        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)
        # Matches a full copyright notice:
        self.copyright_re = re.compile (
            # 1: 'Copyright (C)', etc.
            '((Cc)opyright'
            '![Cc]opyright\s+\&[(Cc)]\')
            '#matches a full copyright notice:
            '![Cc]opyright\s+@copyright\''
            '#matches part of a year or copyright holder.
            '![Cc]opyright\s+@copyright\['
            '#matches one year.
            '![Cc]opyright\s+\%'s'
            '#matches one year.
            '![Cc]opyright\s+\&copy;'
            '#matches a full copyright notice:
            '![Cc]opyright\s+\&copyright\['
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            '![Cc]接轨'.
# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*\[0-9\][0-9]',
                                      re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

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

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

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

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

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

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

    def __str__ (self):
        return 'unrecognised year: ' + self.year

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

    def year_range (self, years):

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

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

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

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

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

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

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

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

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

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

    # If the next line doesn't look like a proper continuation,
    # assume that what we've got is complete.
    continuation = self.strip_continuation(next_line)
    if not self.continuation_re.match(continuation):
        break

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

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match(line, match.start())
    assert match
    holder = match.group(4)

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

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

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

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

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

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

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

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

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

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
    return
lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
mode = None
with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed

            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
                line = next_line

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

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

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

else:
    self.process_file (dir, filename, filter)

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

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

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

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

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

    Options:
'' % sys.argv[0])

    format = '%-15s %s
''

    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))

    sys.stdout.write ('nDirectories:n'')

    format = '%-25s'

    i = 0

    for (dir, filter) in self.dirs:
        i += 1

        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n'')
        else:
            sys.stdout.write (format % dir)

        sys.exit (0)

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

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

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

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

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

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

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

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

            # Handled separately.
            'testsuite',
        ])

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

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

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

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

        self.skip_extensions |= set (]
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn’t updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    # Similarly params/README.
    if filename == 'README' and os.path.basename (dir) == 'params':
        return True
    if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_extensions |= set (['
            # Maintained by the translation project.
            '.po',

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

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_dirs |= set (['
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set (['
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])
        self.skip_dirs |= set (['
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn’t be changed.
def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

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

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Intel Corporation')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author('National Research Council of Canada.')
        self.add_external_author('NVIDIA Corporation')
        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
        self.add_external_author('Regents of the University of California.')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnatools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcc1')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        # libgo is imported from upstream.
        self.add_dir ('libomp')
        self.add_dir ('libhsail-rt')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
        # liboffloadmic is imported from upstream.
        self.add_dir ('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('libvtv')
        self.add_dir ('lto-plugin')
self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecdnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libobjc',
    'libobjc',
    'libsssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright © 2007 Free Software Foundation, Inc.
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
@c This file is intended to be included in another file.

@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
@center Version 3, 29 June 2007

@display
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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.
Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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@enumerate 0
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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.

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

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

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

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

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

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

That's all there is to it!
" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
" Standard preamble:
"=======================================================================
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb " Begin verbatim text
.ft CW
.nf
.ne \$1
..
.de Ve " End verbatim text
.ft R
Set up some character translations and predefined strings. "- will give an unbreakable dash, "(PI will give pi, "(L" will give a left double quote, and "(R" will give a right double quote. "(C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won’t be available. "(C’ and "(C‘ expand to " in nroff, nothing in troff, for use with C<<.

```
\tr \(\*-W-.
   .ds C+ C\v'-1v'\h'-1p'\s-2+\h'-1p'+\s0v'1v'\h'-1p'
   .ie n \{|.
      .ds -- \(\*-W-.
      .ds PI pi
      if (\(n(.H=4u)&(1m=24u) .ds -- \(\*-W-\(W'h'-12u\(W'h'-12u'\h'-1p'
      if (\(n(.H=4u)&(1m=20u) .ds -- \(\*-W-\(W'h'-12u\(W'h'-8u'\h'-1p'
      .ds L" "
      .ds R" "
      .ds C' "
      .ds C" "
   \}b\}
   .eb {\}
      .ds -- \(em}\}
      .ds PI \(*p
      .ds L" 
      .ds R" 
      .ds C
      .ds C
   \}b\}
```

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

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

Avoid warning from groff about undefined register 'F'.
```
\de IX
```
```
if \nF .nr F 0
if \nF>0 \{
   .de IX
   tm Index:\$1\(n%at\$2"
   .if \nF==2 \{
      .nr % 0
```

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish
to avoid the special danger that patents applied to a free program
could make it effectively proprietary. To prevent this, the \s-1GPL\s0
assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

\"TERMS AND CONDITIONS\"

\* Definitions.\* 4

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work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.
The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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c. You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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

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

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/* Use the Sequent Symmetry assembler syntax. */

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

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

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

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

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
 #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

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

/* This is how to output an assembler line
 that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE, SIZE) \
fprintf (FILE, "t.space " HOST_WIDE_INT_PRINT_UNSIGNED\"u\", (SIZE))

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

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

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

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

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

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

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

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

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

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
sprintf ((BUF), *%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

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

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

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

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1.619 ezdrivernp5c 14.44 XE3.16

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

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

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

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==========
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
    br i1 undef, label %while.end, label %while.body.lr.ph
while.body.lr.ph: ; preds = %entry
  br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

sw.bb.i: ; preds = %while.body
  unreachable

sw.bb3.i: ; preds = %while.body
  unreachable

exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

sw.bb.i17: ; preds = %.exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

exit.2: ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body

while.end: ; preds = %entry
  ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[[BLOCK0_HI:v\[0-9\]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

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Program  Directory
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<none yet>  

// RUN: %clang_cc1 -fsyntax-only -verify -pedantic %s

@protocol NSObject
@end

@interface NSObject : NSObject
@end

void __setRetained(id *ivar, id value, NSObject **o) {
  *ivar = value;
}
static NSString *_logProcessPrefix = 0;
void func() {
    __setRetained(&_logProcessPrefix, _logProcessPrefix, &_logProcessPrefix);
}
@end

@interface NSObject (ScopeAdditions)
+ (void)setObjectLogProcessPrefix:(NSString *)processPrefix {
    __setRetained(&_logProcessPrefix, processPrefix, &_logProcessPrefix);
}
@end

@class Derived;

NSObject *ExternFunc (NSObject *filePath, NSObject *key);
typedef id FuncSignature (NSObject *arg1, Derived *arg2);

@interface Derived: NSObject
+ (void)registerFunc:(FuncSignature *)function; // expected-note{{passing argument to parameter 'function' here}}
@end

void foo(void) {
    // GCC currently allows this (it has some fairly new support for covariant return types and contravariant argument
types).
    // Since registerFunc: expects a Derived object as it's second argument, I don't know why this would be legal.
    [Derived registerFunc: ExternFunc];  // expected-warning{{incompatible pointer types sending 'NSObject
*(NSObject *, NSObject *)' to parameter of type 'FuncSignature *'}}
}

// rdar://10751015
@protocol NSCopying @end
@interface I
- (void) Meth : (id <NSCopying>)aKey; // expected-note {{passing argument to parameter 'aKey' here}}
@end

@class ForwarClass; // expected-note 3 {{conformance of forward class ForwarClass to protocol NSCopying can
not be confirmed}}

ForwarClass *Test10751015 (I* pi, ForwarClass *ns_forward) {
    [pi Meth : ns_forward ]; // expected-warning {{sending 'ForwarClass *' to parameter of incompatible type
'id<NSCopying>'}}
    id <NSCopying> id_ns = ns_forward; // expected-warning {{initializing 'id<NSCopying>' with an expression of
incompatible type 'ForwarClass *'}}
    return id_ns; // expected-warning {{returning 'id<NSCopying>' from a function with incompatible result type
'ForwarClass *'}}
}
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1.629 iputils s20180629 r0

1.630 urllib3 1.22

1.631 iperf 3.6 r0

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* and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
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1.632 tzdata 2018d 1

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.643 python3-pycparser 2.20 r0

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pycparser -- A C parser in Python

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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:
I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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Version 2.1, February 1999

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1.650 go-fsnotify 1.2.11 r0

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1.656 vim 7.4

1.657 freebsd-tty-headers n/a
1.657.1 Available under license :

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*
*    @(#)ttdefaults.h     8.4 (Berkeley) 1/21/94
*    $FreeBSD: src/sys/sys/ttdefaults.h,v 1.13.2.1 2001/03/06 03:37:08 jkh Exp $
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* 
*      @(#)ttycom.h  8.1 (Berkeley) 3/28/94
* $FreeBSD: src/sys/sys/ttycom.h,v 1.16 2000/01/29 16:47:35 peter Exp $ *
*/
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* 
*      @(#)ttychars.h  8.2 (Berkeley) 1/4/94
* $FreeBSD: src/sys/sys/ttychars.h,v 1.7 1999/08/28 00:52:06 peter Exp $ *

1.658 flex 2.6.0 r0
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1.659 python3-iso8601 0.1.12 r0
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1.660 go-patricia 2.2.6 r0

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1.661 gnutls 3.6.4 r0
1.661.1 Available under license:

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
#!/usr/bin/env python

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#
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#===copyright.py

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" % (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" % (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):
        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 BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \ 
        "\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            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 = (  
    # These files are sensitive to line numbering.  
    "gdb/testsuite/gdb.base/step-line.inp",  
    "gdb/testsuite/gdb.base/step-line.c",  
)

# 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/gdtk",  
    "gdb/testsuite/gdb.gdtk/",  
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdghost.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/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",  
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",  
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",  
)
"sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
"sim/arm/arminit.c",
"sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
"sim/common/cgen-acfcp.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/gen-support.h", "sim/ppc/ld-insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.h", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.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",
"sim/ppc/hw_idc.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/trace.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/ff.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/ff.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c"
if __name__ == "__main__":
    main()
BEGIN{
    FS="\"",
    F0="\" Do not modify this file!! "
    F1=".- buffer-read-only: t -. vi"
    FS="",
    F0=" It is created automatically by copying.awk.
    F0=" Modify copying.awk instead. <= */
    F0=""
    F0="#include \"defs.h\"
    F0="#include \"command.h\"
    F0="#include \"gdbcmd.h\"
    F0=""
    F0="static void show_copying_command (char *, int);"
    F0=""
    F0="static void show_warranty_command (char *, int);"
    F0=""
    F0="void _initialize_copying (void);"
    F0=""
    F0="static void"
    F0="show_copying_command (char *ignore, int from_tty);"
    F0="{";
}
NR == 1./[^]*15\. Disclaimer of Warranty\[ \]*$/
if ($0 ~ //)
{
    printf " printf_filtered (\"\n\n\n"
}
else if ($0 !~ /^15\. Disclaimer of Warranty\[ \]*$/)
{
    printf " printf_filtered (\""
    for (i = 1; i < NF; i++)
printf "\%s\n\n", $i;
    printf "\%s\n\n", $NF;
}

/*[^]*15\. Disclaimer of Warranty\[ \]*$/
print ");
print ""
print "static void"
print "show_warranty_command (char *ignore, int from_tty);"
print "{";
1.665 ixgbe 5.3.4

1.665.1 Available under license:

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<tr>
<td>src/drivers/net/3c509.h</td>
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</tr>
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</table>

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1.669 ptest-runner 2.2 r0

1.670 jansson 2.9

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1.671 python-packaging 19.2 r0

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1.672 lm-sensors 3.5.0 r0

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
* Bob Schlaermann
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* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.678 netbase 5.4
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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: $(srmcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $<
 | sed 's/\$(srmcdir)/\1.o [ \!\n]*/\1.o $@ : /g' > $@; \n [ -s $@ ] || rm -f $@’
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$\$(SHELL) -ec \'$\$(GEN_DEPS.cc) $< \ 
| sed \'s/L/($*)/o\[ :]*L.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

1.690 python3-attrs 19.3.0 r0
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1.691 libuio 0.2.1 r0

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On all platforms, Nmap is normally linked with:
- libpcap: Network packet capture library. Distributed with Nmap in the
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http://www.tcpdump.org/

- libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/

- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
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- liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
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- OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
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- LIBLINEAR. Used for IPv6 OS classification.
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On Windows only, Nmap uses:

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Zenmap and Ndiff require:

- Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
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Written by: Philip Hazel
Email local part: ph10
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Written by: Philip Hazel
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1.697 glibc 2.28 r0

1.697.1 Available under license:
From 18fe4a6172c58fe863fe388745c78ec642c6fc Mon Sep 17 00:00:00 2001
From: Serhii Popovych <spopovyc@cisco.com>
Date: Fri, 23 Sep 2016 23:00:43 -0700
Subject: [PATCH] glibc: Do not build BSD kernels compatibility functions

They are failing stubs anyway and may cause various build time issues (e.g. libopenbsd-compat.so from binos/contrib/openssh linking failures due to multiple setlogin() definitions).

Following functions are not in glibc with this patch:

- chflags
- fchflags
- lchmod
- revoke
- setlogin

Signed-off-by: Serhii Popovych <spopovyc@cisco.com>

---

3 files changed, 3 insertions(+), 4 deletions(-)

diff --git a/io/Makefile b/io/Makefile
index ec5c6d7a2fb8..fc062296a560 100644
--- a/io/Makefile
+++ b/io/Makefile
@@ -36,7 +36,7 @@ routines :=
 fxstatat fxstatat64\n statfs fstatfs statfs64 fstatfs64\n statvfs fstatvfs statvfs64 fstatvfs64\n-umask chmod fchmod lchmod fchmodat\n+umask chmod fchmod fchmodat\n mkdir mkdirat\n open open_2 open64 open64_2 openat openat_2 openat64 openat64_2\n read write lseek lseek64 access euidaccess faccessat\n
diff --git a/login/Makefile b/login/Makefile
index 8b31991be835..2cd1384c6e01 100644
--- a/login/Makefile
+++ b/login/Makefile
@@ -25,7 +25,7 @@ include ../Makeconfig

headers := utmp.h bits/utmp.h lastlog.h pty.h

-routines := getlogin getlogin_r setlogin getlogin_r_chk
+ routines := getlogin getlogin_r setlogin getlogin_r_chk
    getutent getutent_r getutid getutline getutid_r getutline_r
    utmp_file utmpname updtmp getpt grantpt unlockpt ptsname
    ptsname_r_chk
diff --git a/misc/Makefile b/misc/Makefile
index c9f81515ac9a..b4bce79e5854 100644
--- a/misc/Makefile
+++ b/misc/Makefile
@@ -49,7 +49,7 @@ routines := brk sbrk sstk ioctl 
   select pselect
   acct chroot fsync sync fdatasync syncfs reboot
   gethostid sethostid
-    revoke vhangup
+    vhangup
   + vhangup
   swapon swapoff mktemp mkstemp64 mkdtemp
   mkdtemp64 mkstemp64 mkstemp64 mkstemp64 mkdtemp64
   ualarm usleep
@@ -58,7 +58,6 @@ routines := brk sbrk sstk ioctl 
   fstab mntent mntent_r
   utimes lutimes futimes futimesat
   truncate truncate64 truncate64
-    chflags fchflags
+    insremque getttyent getusershell getpass ttyslot
   syslog syscall daemon
   mmap mmap64 munmap mprotect msync madvise mincore remap_file_pages

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goproperties - properties file decoder for Go

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Gocheck - A rich testing framework for Go

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22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
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25. [26]Jeff Johnson <sjbj@chatham.usdesign.com> massive prototyping overhaul
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27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote snntp to comply with NTPv4 specification, ntpq saveconfig
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34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
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41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
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57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

- Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
- Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
- Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
- Viraj Bais <vbvais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- Michael Barone <michael.barone@lmco.com> GPSVME fixes
- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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- Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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- Sven Dietrich <sven_dietrich@trimble.COM> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
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Mike Iglesias <iglesias@uci.edu> DEC Alpha port
Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
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Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock drivers
Johannes Maximilian Kuehn <kuehn@ntp.org> SunOS 5.1 port
Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
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0.9.0 thru 1.2
1991-1995 CWI
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2.0
1.6
2000
BeOpen.com no
1.6.1
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2001
CNRI
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PSF
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==Lua programming language==

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1.703 grub 2.02

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.717 gobject-introspection 1.58.0 r0

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Markus F.X.J. Oberhumer
<markus@oberhumer.com>
http://www.oberhumer.com/opensource/lzo/
*/

#define LZO_NEED_DICT_H 1
#include "config1c.h"

#if !defined(COMPRESS_ID)
#define COMPRESS_ID     LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif

#include "lzo1b_c.ch"

/******************************
 //
 ******************************/
#define LZO_COMPRESS     
LZO_PP_ECONCAT3(lzo1c_,COMPRESS_ID,_compress)

#define LZO_COMPRESS_FUNC  
LZO_PP_ECONCAT3(_lzo1c_,COMPRESS_ID,_compress_func)

/******************************
 //
 ******************************/
const lzo_compress_t LZO_COMPRESS_FUNC = do_compress;

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in, lzo_uint in_len,
               lzo_bytep out, lzo_uintp out_len,
               lzo_voidp wrkmem )
{
    return _lzo1c_do_compress(in,in_len,out,out_len,wrkmem,do_compress);
}

/* vim:set ts=4 sw=4 et: */

1.722 sudo 1.8.27 r0
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
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maintaining it in 1993. This list is known to be incomplete--if
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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzelav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frylinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
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Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
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Sato, Yuichi
Sanchez, Wilfredo
Sanders, Miguel
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Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
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Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
1.723 selinux-gui 2.8 r0
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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
 * interrupt 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 the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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1.729 go-capability 0.0 r0

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/*
 * mdadm - manage Linux "md" devices aka RAID arrays.
 *
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 *
 * Additions for bitmap and write-behind RAID options, Copyright (C) 2003-2004,
 * Paul Clements, SteelEye Technology, Inc.
 */

#include "mdadm.h"
#include "md_p.h"
#include <ctype.h>

static int scan_assemble(struct supertype *ss,
    struct context *c,
    struct mddev_ident *ident);
static int misc_scan(char devmode, struct context *c);
static int stop_scan(int verbose);
static int misc_list(struct mddev_dev *devlist,
    struct mddev_ident *ident,
    char *dump_directory,
    struct supertype *ss, struct context *c);

const char Name[] = "mdadm";

int main(int argc, char *argv[])
{
    int mode = 0;
    int opt;
    int option_index;
    int rv;
    int i;

    unsigned long long array_size = 0;
    unsigned long long data_offset = INVALID_SECTORS;
    struct mddev_ident ident;
    char *configfile = NULL;
    int devmode = 0;
    int bitmap_fd = -1;
    struct mddev_dev *devlist = NULL;
    struct mddev_dev **devlistend = &devlist;
    struct mddev_dev *dv;
    int devs_found = 0;
    char *symlinks = NULL;
    int grow_continue = 0;

    /* autof indicates whether and how to create device node.
     * bottom 3 bits are style. Rest (when shifted) are number of parts
     * 0 - unset
     * 1 - don't create (no)
     * 2 - if is_standard, then create (yes)
     * 3 - create as 'md' - reject is_standard mdp (md)
     * 4 - create as 'mdp' - reject is_standard md (mdp)
     * 5 - default to md if not is_standard (md in config file)
     * 6 - default to mdp if not is_standard (part, or mdp in config file)
     */
    struct context c = {
        .require_homehost = 1,
    };
    struct shape s = {
.journaldisks= 0,
.level= UnSet,
.layout= UnSet,
.bitmap_chunk= UnSet,
};

char sys_hostname[256];
char *mailaddr = NULL;
char *program = NULL;
int increments = 20;
int daemonise = 0;
char *pidfile = NULL;
int oneshot = 0;
int spare_sharing = 1;
struct supertype *ss = NULL;
enum flag_mode writemostly = FlagDefault;
enum flag_mode failfast = FlagDefault;
char *shortopt = short_options;
int dosyslog = 0;
int rebuild_map = 0;
char *remove_path = NULL;
char *udev_filename = NULL;
char *dump_directory = NULL;

int print_help = 0;
FILE *outf;

int mdfd = -1;

srandom(time(0) ^ getpid());
ident.uuid_set=0;
id.end.level = UnSet;
id.end.raid_disks = UnSet;
id.end.super_minor= UnSet;
id.end.devices=0;
id.end.spare_group = NULL;
id.end.autof = 0;
id.end.st = NULL;
id.end.bitmap_fd = -1;
id.end.bitmap_file = NULL;
id.end.name[0] = 0;
id.end.container = NULL;
id.end.member = NULL;

while ((option_index = -1) ,
    (opt=getopt_long(argc, argv,
shortopt, long_options,
&option_index)) != -1) {
    int newmode = mode;
    /* firstly, some mode-independent options */
    switch(opt) {
    case HelpOptions:
        print_help = 2;
        continue;
    case 'h':
        print_help = 1;
        continue;
    case 'V':
        fputs(Version, stderr);
        exit(0);
    case 'v':
        c.verbose++;
        continue;
    case 'q':
        c.verbose--;
        continue;
    case 'b':
        if (mode == ASSEMBLE || mode == BUILD ||
            mode == CREATE || mode == GROW ||
            mode == INCREMENTAL || mode == MANAGE)
            break; /* b means bitmap */
    case Brief:
        c.brief = 1;
        continue;
    case 'Y':
        c.export++;
        continue;
    case HomeHost:
        if (strcasecmp(optarg, "<ignore>") == 0)
            c.require_homehost = 0;
        else
            c.homehost = optarg;
        continue;
    case OffRootOpt:
        /* Silently ignore old option */
        continue;
    case Prefer:
        if (c.prefer)
            free(c.prefer);
        if (asprintf(&c.prefer, "/%s/", optarg) <= 0)
c.prefer = NULL;
continue;

case ':':
case '?':
fprintf(Usage, stderr);
exit(2);
}
/* second, figure out the mode.
* Some options force the mode. Others
* set the mode if it isn't already
*/

switch(opt) {
case ManageOpt:
newmode = MANAGE;
shortopt = short_bitmap_options;
break;
case 'a':
case Add:
case AddSpare:
case AddJournal:
case 'r':
case Remove:
case Replace:
case With:
case 't':
case Fail:
case ReAdd: /* re-add */
case ClusterConfirm:
if (!mode) {
newmode = MANAGE;
shortopt = short_bitmap_options;
}
break;

case 'A': newmode = ASSEMBLE;
shortopt = short_bitmap_auto_options;
break;
case 'B': newmode = BUILD;
shortopt = short_bitmap_auto_options;
break;
case 'C': newmode = CREATE;
shortopt = short_bitmap_auto_options;
break;
case 'F': newmode = MONITOR;
break;
case 'G': newmode = GROW;
shortopt = short_bitmap_options;
break;
case 'T': newmode = INCREMENTAL;
shortopt = short_bitmap_auto_options;
break;
case AutoDetect:
newmode = AUTODETECT;
break;

case MiscOpt:
case 'D':
case 'E':
case 'X':
case 'Q':
case ExamineBB:
case Dump:
case Restore:
case Action:
newmode = MISC;
break;

case 'R':
case 'S':
case 'o':
case 'w':
case 'W':
case WaitOpt:
case Waitclean:
case DetailPlatform:
case KillSubarray:
case UpdateSubarray:
case UdevRules:
case KillOpt:
if (!mode)
newmode = MISC;
break;

case NoSharing:
newmode = MONITOR;
break;
}
if (mode && newmode == mode) {
    /* everybody happy ! */
} else if (mode && newmode != mode) {
    /* not allowed.. */
    pr_err("\n");
    if (option_index >= 0)
        fprintf(stderr, "--%s", long_options[option_index].name);
else
fprintf(stderr, ".-%c", opt);
fprintf(stderr, " would set mdadm mode to \"%s\", but it is already set to \"%s\"."
, map_num(modes, newmode),
map_num(modes, mode));
exit(2);
} else if (!mode && newmode) {
mode = newmode;
if (mode == MISC && devs_found) {
pr_err("No action given for %s in --misc mode\n", devlist->devname);
cont_err("Action options must come before device names\n");
exit(2);
}
else {
/* special case of -c --help */
if ((opt == 'c' || opt == ConfigFile) &&
    (strncmp(optarg, "--h", 3) == 0 ||
     strncmp(optarg, "-h", 2) == 0)) {
puts(Help_config, stdout);
exit(0);
}
/* If first option is a device, don't force the mode yet */
if (opt == 1) {
    if (devs_found == 0) {
        dv = xmalloc(sizeof(*dv));
        dv->devname = optarg;
        dv->disposition = devmode;
        dv->writemostly = writemostly;
        dv->failfast = failfast;
        dv->used = 0;
        dv->next = NULL;
        *devlistend = dv;
        devlistend = &dv->next;
        devs_found++;
        continue;
    }
    /* No mode yet, and this is the second device ... */
    pr_err("An option must be given to set the mode before a second device\n"
    " (%s) is listed\n", optarg);
    exit(2);
}
if (option_index >= 0)
pr_err("--%s", long_options[option_index].name);
else
pr_err("-%-c", opt);
fprintf(stderr, " does not set the mode, and so cannot be the first option.\n");
exit(2);

/* if we just set the mode, then done */
switch(opt) {
    case ManageOpt:
    case MiscOpt:
    case 'A':
    case 'B':
    case 'C':
    case 'F':
    case 'G':
    case 'I':
    case AutoDetect:
        continue;
    }
    if (opt == 1) {
        /* an undecorated option - must be a device name. */
        *
        if (devs_found > 0 && devmode == DetailPlatform) {
            pr_err("controller may only be specified once. %s ignored\n", optarg);
            continue;
        }
        if (devs_found > 0 && mode == MANAGE && !devmode) {
            pr_err("Must give one of -a/-r/-f for subsequent devices at %s\n", optarg);
            exit(2);
        }
        if (devs_found > 0 && mode == GROW && !devmode) {
            pr_err("Must give -a/--add for devices to add: %s\n", optarg);
            exit(2);
        }
        dv = xmalloc(sizeof(*dv));
        dv->devname = optarg;
        dv->disposition = devmode;
        dv->writemostly = writemostly;
        dv->failfast = failfast;
        dv->used = 0;
        dv->next = NULL;
        *devlistend = dv;
        devlistend = &dv->next;
        devs_found++;
        continue;
    }
/* We've got a mode, and opt is now something else which
 * could depend on the mode */
#define O(a,b) ((a<<16)|b)
switch (O(mode,opt)) {
  case O(GROW,'c'):
  case O(GROW,ChunkSize):
  case O(CREATE,'c'):
  case O(CREATE,ChunkSize):
  case O(BUILD,'c'): /* chunk or rounding */
  case O(BUILD,ChunkSize): /* chunk or rounding */
    if (s.chunk) {
      pr_err("chunk/rounding may only be specified once. Second value is \"%s\"\n", optarg);
      exit(2);
    }
    s.chunk = parse_size(optarg);
    if (s.chunk == INVALID_SECTORS ||
     s.chunk < 8 || (s.chunk&1)) {
      pr_err("invalid chunk/rounding value: \"%s\"\n", optarg);
      exit(2);
    }
    /* Convert sectors to K */
    s.chunk /= 2;
    continue;
  case O(INCREMENTAL, 'e'):
  case O(CREATE,'e'):
  case O(ASSEMBLE,'e'):
  case O(MISC,'e'): /* set metadata (superblock) information */
    if (ss) {
      pr_err("metadata information already given\n");
      exit(2);
    }
    for(i=0; !ss && superlist[i]; i++)
      ss = superlist[i]->match_metadata_desc(optarg);
    if (!ss) {
      pr_err("unrecognised metadata identifier: \"%s\"\n", optarg);
      exit(2);
    }
    continue;
  case O(MANAGE,'W'):
  case O(MANAGE,WriteMostly):
  case O(BUILD,'W'):
  case O(BUILD,WriteMostly):
  case O(CREATE,'W'):
case O(CREATE, 'W'):
    /* set write-mostly for following devices */
    writemostly = FlagSet;
    continue;

    case O(MANAGE, 'w'):
    /* clear write-mostly for following devices */
    writemostly = FlagClear;
    continue;

    case O(MANAGE, FailFast):
    case O(CREATE, FailFast):
    failfast = FlagSet;
    continue;
    case O(MANAGE, NoFailFast):
    failfast = FlagClear;
    continue;

    case O(GROW, 'Z'):
    case O(CREATE, 'Z'):
    case O(BUILD, 'Z'):
    /* size */
    if (s.size > 0) {
        pr_err("size may only be specified once. Second value is %s\n", optarg);
        exit(2);
    }
    if (strcmp(optarg, "max") == 0)
        s.size = MAX_SIZE;
    else {
        s.size = parse_size(optarg);
        if (s.size == INVALID_SECTORS || s.size < 8) {
            pr_err("invalid size: %s\n", optarg);
            exit(2);
        }
        /* convert sectors to K */
        s.size /= 2;
    }
    continue;

    case O(GROW, 'Z'):
    /* array size */
    if (array_size > 0) {
        pr_err("array-size may only be specified once. Second value is %s\n", optarg);
        exit(2);
    }
    if (strcmp(optarg, "max") == 0)
        array_size = MAX_SIZE;
    else {
        array_size = parse_size(optarg);
        if (array_size == 0 ||
array_size == INVALID_SECTORS) { 
  pr_err("invalid array size: %s\n", optarg);
  exit(2);
}
continue;

case O(CREATE,DataOffset):
case O(GROW,DataOffset):
  if (data_offset != INVALID_SECTORS) {
    pr_err("data-offset may only be specified one. Second value is %s\n", optarg);
    exit(2);
  }
  if (mode == CREATE && stremp(optarg, "variable") == 0)
    data_offset = VARIABLE_OFFSET;
  else
    data_offset = parse_size(optarg);
  if (data_offset == INVALID_SECTORS) {
    pr_err("invalid data-offset: %s\n", optarg);
    exit(2);
  }
  continue;

  case O(GROW,')):
  case O(CREATE,')):
  case O(BUILD,')): /* set raid level*/
  if (s.level != UnSet) {
    pr_err("raid level may only be set once. Second value is %s\n", optarg);
    exit(2);
  }
  s.level = map_name(pers, optarg);
  if (s.level == UnSet) {
    pr_err("invalid raid level: %s\n", optarg);
    exit(2);
  }
  if (s.level != 0 && s.level != LEVEL_LINEAR &&
      s.level != 1 && s.level != LEVEL_MULTIPATH &&
      s.level != LEVEL_FAULTY && s.level != 10 &&
      mode == BUILD) {
    pr_err("Raid level %s not permitted with --build.\n", optarg);
    exit(2);
  }
  if (s.sparedisks > 0 && s.level < 1 && s.level >= -1) {
    pr_err("raid level %s is incompatible with spare-devices setting.\n", optarg);
  }
optarg);
exit(2);
}
ident.level = s.level;
continue;

case O(GROW, 'p'): /* new layout */
case O(GROW, Layout):
if (s.layout_str) {
    pr_err("layout may only be sent once. Second value was %s\n", optarg);
    exit(2);
}
s.layout_str = optarg;
/* "Grow" will parse the value */
continue;

case O(CREATE, 'p'): /* raid5 layout */
case O(CREATE, Layout):
case O(BUILD, 'p'): /* faulty layout */
case O(BUILD, Layout):
if (s.layout != UnSet) {
    pr_err("layout may only be sent once. Second value was %s\n", optarg);
    exit(2);
}
switch(s.level) {
    default:
        pr_err("layout not meaningful for %s arrays.\n",
            map_num(pers, s.level));
        exit(2);
    case UnSet:
        pr_err("raid level must be given before layout.\n");
        exit(2);
    case 5:
        s.layout = map_name(r5layout, optarg);
        if (s.layout == UnSet) {
            pr_err("layout %s not understood for raid5.\n", optarg);
            exit(2);
        }
        break;
    case 6:
        s.layout = map_name(r6layout, optarg);
        if (s.layout == UnSet) {
            pr_err("layout %s not understood for raid6.\n", optarg);
            exit(2);
        }
        break;
}
break;

case 10:
s.layout = parse_layout_10(optarg);
if (s.layout < 0) {
    pr_err("layout for raid10 must be 'nNN', 'oNN' or 'fNN' where NN is a number, not %s
", optarg);
    exit(2);
} 
break;
case LEVEL_FAULTY:
    /* Faulty
     * modeNNN
     */
s.layout = parse_layout_faulty(optarg);
    if (s.layout == -1) {
        pr_err("layout %s not understood for faulty.
", optarg);
        exit(2);
    }
    break;
}
continue;

case O(CREATE,AssumeClean):
case O(BUILD,AssumeClean): /* assume clean */
case O(GROW,AssumeClean):
s.assume_clean = 1;
continue;

case O(GROW,'n'):
case O(CREATE,'n'):
case O(BUILD,'n'): /* number of raid disks */
    if (s.raiddisks) {
        pr_err("raid-devices set twice: %d and %s
", s.raiddisks, optarg);
        exit(2);
    }
    s.raiddisks = parse_num(optarg);
    if (s.raiddisks <= 0) {
        pr_err("invalid number of raid devices: %s
", optarg);
        exit(2);
    }
    ident.raid_disks = s.raiddisks;
    continue;
case O(ASSEMBLE, Nodes):
case O(GROW, Nodes):
case O(CREATE, Nodes):
c.nodes = parse_num(optarg);
if (c.nodes <= 0) {
    pr_err("invalid number for the number of cluster nodes: \%s\n", optarg);
    exit(2);
} continue;
    case O(CREATE, ClusterName):
    case O(ASSEMBLE, ClusterName):
        c.homecluster = optarg;
        if (strlen(c.homecluster) > 64) {
            pr_err("Cluster name too big.\n");
            exit(ERANGE);
        } continue;
    case O(CREATE,'x'): /* number of spare (eXtra) disks */
        if (s.sparedisks) {
            pr_err("spare-devices set twice: \%d and \%s\n", s.sparedisks, optarg);
            exit(2);
        } if (s.level != UnSet && s.level <= 0 && s.level >= -1) {
            pr_err("spare-devices setting is incompatible with raid level \%d\n", s.level);
            exit(2);
        } s.sparedisks = parse_num(optarg);
        if (s.sparedisks < 0) {
            pr_err("invalid number of spare-devices: \%s\n", optarg);
            exit(2);
        } continue;
    case O(CREATE,'a'):
    case O(CREATE,Auto):
    case O(BUILD,'a'):
    case O(BUILD,Auto):
    case O(INCREMENTAL,'a'):
    case O(INCREMENTAL,Auto):
    case O(ASSEMBLE,'a'):
    case O(ASSEMBLE,Auto): /* auto-creation of device node */
        c.autof = parse_auto(optarg, "--auto flag", 0);
        continue;
    case O(CREATE,Symlinks):
    case O(BUILD,Symlinks):
    case O(ASSEMBLE,Symlinks): /* auto creation of symlinks in /dev to /dev/md */
symlinks = optarg;
continue;

case O(BUILD,'f'): /* force honouring `-n 1` */
case O(BUILD,Force): /* force honouring `-n 1` */
case O(GROW,'f'): /* ditto */
case O(GROW,Force): /* ditto */
case O(CREATE,'f'): /* force honouring of device list */
case O(CREATE,Force): /* force honouring of device list */
case O(ASSEMBLE,'f'): /* force assembly */
case O(ASSEMBLE,Force): /* force assembly */
case O(MISC,'f'): /* force zero */
case O(MISC,Force): /* force zero */
case O(MANAGE,Force): /* add device which is too large */
c.foce=1;
continue;
/* now for the Assemble options */
case O(ASSEMBLE, FreezeReshape): /* Freeze reshape during
 * initrd phase */
case O(INCREMENTAL, FreezeReshape):
 c.freeze_reshape = 1;
continue;
case O(CREATE,'u'): /* uuid of array */
case O(ASSEMBLE,'u'): /* uuid of array */
if (ident.uuid_set) {
    pr_err("uuid cannot be set twice. Second value %s,\n", optarg);
    exit(2);
}
    if (parse_uuid(optarg, ident.uuid))
        ident.uuid_set = 1;
else {
    pr_err("Bad uuid: %s\n", optarg);
    exit(2);
}
    continue;
case O(CREATE,'N');
case O(ASSEMBLE,'N');
case O(MISC,'N');
if (ident.name[0]) {
    pr_err("name cannot be set twice. Second value %s,\n", optarg);
    exit(2);
}
if (mode == MISC && !c.subarray) {
    pr_err("-N/--name only valid with --update-subarray in misc mode\n");
    exit(2);
}
if (strlen(optarg) > 32) {
pr_err("name '%s' is too long, 32 chars max.
", optarg); exit(2);
strcpy(ident.name, optarg);
continue;

case O(ASSEMBLE,'m'): /**< super-minor for array */
case O(ASSEMBLE,SuperMinor):
    if (ident.super_minor != UnSet) {
        pr_err("super-minor cannot be set twice. Second value: %s\n", optarg);
        exit(2);
    }
    if (strcmp(optarg, "dev") == 0)
        ident.super_minor = -2;
    else {
        ident.super_minor = parse_num(optarg);
        if (ident.super_minor < 0) {
            pr_err("Bad super-minor number: %s\n", optarg);
            exit(2);
        }
    }
    continue;

case O(ASSEMBLE,'o'):
case O(MANAGE,'o'):
case O(CREATE,'o'):
c.readonly = 1;
continue;

case O(ASSEMBLE,'U'): /**< update the superblock */
case O(MISC,'U'):
    if (c.update) {
        pr_err("Can only update one aspect of superblock, both %s and %s given\n", c.update, optarg);
        exit(2);
    }
    if (mode == MISC && !c.subarray) {
        pr_err("Only subarrays can be updated in misc mode\n");
        exit(2);
    }
    c.update = optarg;
    if (strcmp(c.update, "sparc2.2") == 0)
        continue;
    if (strcmp(c.update, "super-minor") == 0)
        continue;
    if (strcmp(c.update, "summaries") == 0)
        continue;
if (strcmp(c.update, "resync") == 0) continue;
if (strcmp(c.update, "uuid") == 0) continue;
if (strcmp(c.update, "name") == 0) continue;
if (strcmp(c.update, "homehost") == 0) continue;
if (strcmp(c.update, "home-cluster") == 0) continue;
if (strcmp(c.update, "nodes") == 0) continue;
if (strcmp(c.update, "devicesize") == 0) continue;
if (strcmp(c.update, "no-bitmap") == 0) continue;
if (strcmp(c.update, "bbl") == 0) continue;
if (strcmp(c.update, "no-bbl") == 0) continue;
if (strcmp(c.update, "force-no-bbl") == 0) continue;
if (strcmp(c.update, "metadata") == 0) continue;
if (strcmp(c.update, "revert-reshape") == 0) continue;
if (strcmp(c.update, "byteorder") == 0) {
    if (ss) {
        pr_err("must not set metadata type with --update=byteorder\n");
        exit(2);
    }
    for (i = 0; ss && superlist[i]; i++)
        ss = superlist[i]->match_metadata_desc("0.swap");
    if (!ss) {
        pr_err("INTERNAL ERROR cannot find 0.swap\n");
        exit(2);
    }
}
continue;
}
if (strcmp(c.update, "?") == 0 ||
    strcmp(c.update, "help") == 0) {
    outf = stdout;
    fprintf(outf, "%s: ", Name);
} else {
    outf = stderr;
    fprintf(outf, 

"%s: '--update=%s' is invalid. ",
Name, c.update);
}
fprintf(outf, "Valid --update options are:\n"
" 'sparc2.2', 'super-minor', 'uuid', 'name', 'nodes', 'resync',\n"
" 'summaries', 'homehost', 'home-cluster', 'byteorder', 'devicesize',\n"
" 'no-bitmap', 'metadata', 'revert-reshape'\n"
" 'bbl', 'no-bbl', 'force-no-bbl'\n"
);
exit(outf == stdout ? 0 : 2);

case O(MANAGE,'U'):
/* update=devicesize is allowed with --re-add */
if (devmode != 'A') {
pr_err("--update in Manage mode only allowed with --re-add\n");
exit(1);
}
if (c.update) {
pr_err("Can only update one aspect of superblock, both %s and %s given.\n",
c.update, optarg);
exit(2);
}
c.update = optarg;
if (strcmp(c.update, "devicesize") != 0 &&
    strcmp(c.update, "bbl") != 0 &&
    strcmp(c.update, "force-no-bbl") != 0 &&
    strcmp(c.update, "no-bbl") != 0) {
pr_err("only 'devicesize', 'bbl', 'no-bbl', and 'force-no-bbl' can be updated with --re-add\n");
exit(2);
}
continue;

case O(INCREMENTAL,NoDegraded):
pr_err("--no-degraded is deprecated in Incremental mode\n");
case O(ASSEMBLE,NoDegraded): /* --no-degraded */
c.runstop = -1; /* --stop isn't allowed for --assemble, *
* so we overload slightly */
continue;

case O(ASSEMBLE,'c'):
case O(ASSEMBLE,ConfigFile):
case O(INCREMENTAL, 'c'):
case O(INCREMENTAL, ConfigFile):
case O(MISC, 'c'):
case O(MISC, ConfigFile):
case O(MONITOR,'c'):
case O(MONITOR,ConfigFile):
case O(CREATE,ConfigFile):
if (configfile) {
  pr_err("configfile cannot be set twice. Second value is \%s\n", optarg);
  exit(2);
}
configfile = optarg;
set_conffile(configfile);
/* FIXME possibly check that config file exists. Even parse it */
continue;
case O(ASSEMBLE,'s'): /* scan */
case O(MISC,'s');
case O(MONITOR,'s');
case O(INCREMENTAL,'s');
c.scan = 1;
continue;

  case O(MONITOR,'m'): /* mail address */
  case O(MONITOR,EMail):
    if (mailaddr)
      pr_err("only specify one mailaddress. \%s ignored.\n", optarg);
    else
      mailaddr = optarg;
    continue;

  case O(MONITOR,'p'): /* alert program */
  case O(MONITOR,ProgramOpt): /* alert program */
    if (program)
      pr_err("only specify one alert program. \%s ignored.\n", optarg);
    else
      program = optarg;
    continue;

  case O(MONITOR,'r'): /* rebuild increments */
  case O(MONITOR,Increment):
    increments = atoi(optarg);
    if (increments > 99 || increments < 1) {
      pr_err("please specify positive integer between 1 and 99 as rebuild increments.\n");
      exit(2);
    }
    continue;

  case O(MONITOR,'d'): /* delay in seconds */
  case O(GROW, 'd');
  case O(BUILD,'d'): /* delay for bitmap updates */
  case O(CREATE,'d');
    if (c.delay)
      pr_err("only specify delay once. \%s ignored.\n", optarg);
optarg);
else {
    c.delay = parse_num(optarg);
    if (c.delay < 1) {
        pr_err("invalid delay: %s\n", optarg);
        exit(2);
    }
    continue;
}

case O(MONITOR,'f'): /* daemonise */
    case O(MONITOR,Fork):
        daemonise = 1;
        continue;

    case O(MONITOR,'i'): /* pid */
    if (pidfile)
        pr_err("only specify one pid file. %s ignored.\n", optarg);
    else
        pidfile = optarg;

    case O(MONITOR,'l'): /* oneshot */
        oneshot = 1;
        spare_sharing = 0;
        continue;

    case O(MONITOR,'t'): /* test */
        c.test = 1;
        continue;

    case O(MONITOR,'y'): /* log messages to syslog */
        openlog("mdadm", LOG_PID, SYSLOG_FACILITY);
        dosyslog = 1;
        continue;

    case O(MONITOR, NoSharing):
        spare_sharing = 0;
        continue;

    /* now the general management options. Some are applicable
     * to other modes. None have arguments.
     */
    case O(GROW,'a'):
    case O(GROW,Add):
    case O(MANAGE,'a'):
    case O(MANAGE,Add): /* add a drive */
        devmode = 'a';
        continue;
    case O(MANAGE,AddSpare): /* add drive - never re-add */
        devmode = 'S';
        continue;
case O(MANAGE, AddJournal): /* add journal */
if (s.journaldisks && (s.level < 4 || s.level > 6)) {
    pr_err("--add-journal is only supported for RAID level 4/5/6.
");
    exit(2);
}
    devmode = 'j';
    continue;
 case O(MANAGE, ReAdd):
    devmode = 'A';
    continue;
 case O(MANAGE, 'r'): /* remove a drive */
 case O(MANAGE, Remove):
    devmode = 'r';
    continue;
 case O(MANAGE, 'f'): /* set faulty */
 case O(MANAGE, Fail):
 case O(INCREMENTAL, 'f'):
 case O(INCREMENTAL, Remove):
 case O(INCREMENTAL, Fail): /* r for incremental is taken, use f
    * even though we will both fail and
    * remove the device */
    devmode = 'f';
    continue;
 case O(MANAGE, ClusterConfirm):
    devmode = 'c';
    continue;
 case O(MANAGE, Replace):
    /* Mark these devices for replacement */
    devmode = 'R';
    continue;
 case O(MANAGE, With):
    /* These are the replacements to use */
    if (devmode != 'R') {
        pr_err("--with must follow --replace\n");
        exit(2);
    }
    devmode = 'W';
    continue;
 case O(INCREMENTAL, 'R'):
 case O(MANAGE, 'R'):
 case O(ASSEMBLE, 'R'):
 case O(BUILD, 'R'):
 case O(CREATE, 'R'): /* Run the array */
    if (c.runstop < 0) {
        pr_err("Cannot both Stop and Run an array\n");
        exit(2);
    }
    c.runstop = 1;
continue;
case O(MANAGE,'S'):
if (c.runstop > 0) {
    pr_err("Cannot both Run and Stop an array\n");
    exit(2);
}
c.runstop = -1;
continue;
case O(MANAGE,'t'):
c.test = 1;
continue;

case O(MISC,'Q'):
case O(MISC,'D'):
case O(MISC,'E'):
case O(MISC,KillOpt):
case O(MISC,'R'):
case O(MISC,'S'):
case O(MISC,'X'):
case O(MISC, ExamineBB):
case O(MISC,'o'):
case O(MISC,'w'):
case O(MISC,'W'):
case O(MISC, WaitOpt):
case O(MISC, WaitClean):
case O(MISC, DetailPlatform):
case O(MISC, KillSubarray):
case O(MISC, UpdateSubarray):
case O(MISC, Dump):
case O(MISC, Restore):
case O(MISC, Action):
if (opt == KillSubarray || opt == UpdateSubarray) {
if (c.subarray) {
    pr_err("subarray can only be specified once\n");
    exit(2);
}
c.subarray = optarg;
}
if (opt == Action) {
if (c.action) {
    pr_err("Only one --action can be specified\n");
    exit(2);
}
if (strcmp(optarg, "idle") == 0 ||
    strcmp(optarg, "frozen") == 0 ||
    strcmp(optarg, "check") == 0 ||
    strcmp(optarg, "repair") == 0)
c.action = optarg;
else {
  pr_err("action must be one of idle, frozen, check, repair\n");
  exit(2);
}

if (devmode && devmode != opt &&
    (devmode == 'E' ||
     (opt == 'E' && devmode != 'Q')))
{
  pr_err("--examine/-E cannot be given with ");
  if (devmode == 'E')
  {
    if (option_index >= 0)
      fprintf(stderr, "--%s\n",
               long_options[option_index].name);
    else
      fprintf(stderr, "-%c\n", opt);
  } else if (isalpha(devmode))
      fprintf(stderr, "-%c\n", devmode);
  else
      fprintf(stderr, "previous option\n");
  exit(2);
}
  devmode = opt;
  if (opt == Dump || opt == Restore) {
    if (dump_directory != NULL)
        pr_err("dump/restore directory specified twice: %s and %s\n",
               dump_directory, optarg);
    exit(2);
  }
  dump_directory = optarg;
  continue;
}
  continue;
}

```
```

```
if (devmode != 'E') {
    pr_err("--sparc2.2 only allowed with --examine\n");
    exit(2);
}
c.SparcAdjust = 1;
continue;

case O(ASSEMBLE,b'): /* here we simply set the bitmap file */
    case O(ASSEMBLE, Bitmap):
        if (!optarg) {
            pr_err("bitmap file needed with -b in --assemble mode\n");
            exit(2);
        }
    
    if (!strcmp(optarg, "internal") == 0) {
        pr_err("there is no need to specify --bitmap when assembling arrays with internal bitmaps\n");
        continue;
    }
    bitmap_fd = open(optarg, O_RDWR);
    if (!*optarg || bitmap_fd < 0) {
        pr_err("cannot open bitmap file %s: %s\n", optarg, strerror(errno));
        exit(2);
    }
    ident.bitmap_fd = bitmap_fd; /* for Assemble */
    continue;

    case O(ASSEMBLE, BackupFile):
    case O(GROW, BackupFile):
        /* Specify a file into which grow might place a backup,
        * or from which assemble might recover a backup
        */
        if (c.backup_file) {
            pr_err("backup file already specified, rejecting %s\n", optarg);
            exit(2);
        }
    c.backup_file = optarg;
    continue;

    case O(GROW, Continue):
        /* Continue interrupted grow
        */
        grow_continue = 1;
        continue;
    case O(ASSEMBLE, InvalidBackup):
        /* Acknowledge that the backupfile is invalid, but ask
        * to continue anyway
        */
        c.invalid_backup = 1;
        continue;
case O(BUILD,'b'):
case O(BUILD, Bitmap):
case O(CREATE,'b'):
case O(CREATE, Bitmap):
  /* here we create the bitmap */
case O(GROW,'b'):
case O(GROW, Bitmap):
  if (strcmp(optarg, "internal") == 0 ||
      strcmp(optarg, "none") == 0 ||
      strchr(optarg, '/') != NULL) {
    s.bitmap_file = optarg;
    continue;
  }
  if (strcmp(optarg, "clustered") == 0) {
    s.bitmap_file = optarg;
    /* Set the default number of cluster nodes
     * to 4 if not already set by user
     */
    if (c.nodes < 1)
      c.nodes = 4;
    continue;
  }
  /* probable typo */
  pr_err("bitmap file must contain a '/', or be 'internal', or be 'clustered', or 'none\n"
          "    not '%s', optarg);
  exit(2);
}
case O(GROW, BitmapChunk):
case O(BUILD, BitmapChunk):
case O(CREATE, BitmapChunk):
  /* bitmap chunksize */
  s.bitmap_chunk = parse_size(optarg);
  if (s.bitmap_chunk == 0 ||
      s.bitmap_chunk == INVALID_SECTORS ||
      s.bitmap_chunk & (s.bitmap_chunk - 1)) {
    pr_err("invalid bitmap chunksize: %s\n",
           optarg);
    exit(2);
  }
  s.bitmap_chunk = s.bitmap_chunk * 512;
  continue;
}
case O(GROW, WriteBehind):
case O(BUILD, WriteBehind):
case O(CREATE, WriteBehind):
  /* write-behind mode */
  s.write_behind = DEFAULT_MAX_WRITE_BEHIND;
  if (optarg) {
    s.write_behind = parse_num(optarg);
    if (s.write_behind < 0 ||
s.write_behind > 16383) {
    pr_err("Invalid value for maximum outstanding write-behind writes: \%s.\nIt must be between 0 and 16383.\n", optarg);
    exit(2);
}
continue;

case O(INCREMENTAL, 'r'):
case O(INCREMENTAL, RebuildMapOpt):
    rebuild_map = 1;
    continue;

case O(INCREMENTAL, IncrementalPath):
    remove_path = optarg;
    continue;

case O(CREATE, WriteJournal):
    if (s.journaldisks) {
        pr_err("Please specify only one journal device for the array.\n");
        pr_err("Ignoring --write-journal \%s...\n", optarg);
        continue;
    }
    dv = xmalloc(sizeof(*dv));
    dv->devname = optarg;
    dv->disposition = 'j'; /* WriteJournal */
    dv->used = 0;
    dv->next = NULL;
    *devlistend = dv;
    devlistend = &dv->next;
    devs_found++;

    s.journaldisks = 1;
    continue;
}

/* We have now processed all the valid options. Anything else is
 * an error
 */
if (option_index > 0)
    pr_err(":option --\%s not valid in \%s mode\n",
        long_options[option_index].name,
        map_num(modes, mode));
else
    pr_err("option -\%c not valid in \%s mode\n", opt, map_num(modes, mode));
exit(2);

}

if (print_help) {

char *help_text;
if (print_help == 2)
    help_text = OptionHelp;
else
    help_text = mode_help[mode];
if (help_text == NULL)
    help_text = Help;
    fputs(help_text, stdout);
    exit(0);
}

if (s.journaldisks && (s.level < 4 || s.level > 6)) {
    pr_err("--write-journal is only supported for RAID level 4/5/6.\n");
    exit(2);
}

if (!mode && devs_found) {
    mode = MISC;
    devmode = 'Q';
    if (devlist->disposition == 0)
        devlist->disposition = devmode;
}
if (!mode) {
    fputs(Usage, stderr);
    exit(2);
}

if (symlinks) {
    struct createinfo *ci = conf_get_create_info();
    if (strcasecmp(symlinks, "yes") == 0)
        ci->symlinks = 1;
    else if (strcasecmp(symlinks, "no") == 0)
        ci->symlinks = 0;
    else {
        pr_err("option --symlinks must be 'no' or 'yes'.\n");
        exit(2);
    }
/* Ok, got the option parsing out of the way
 * hopefully it's mostly right but there might be some stuff
 * missing
 * That is mostly checked in the per-mode stuff but...
 * For @,B,C and A without -s, the first device listed must be
 * an md device. We check that here and open it.
 */
if (mode == MANAGE || mode == BUILD || mode == CREATE ||
    mode == GROW || (mode == ASSEMBLE && ! c.scan)) {
    if (devs_found < 1) {
        pr_err("an md device must be given in this mode\n");
        exit(2);
    }
    if ((int)ident.super_minor == -2 && c.autof) {
        pr_err("--super-minor=dev is incompatible with --auto\n");
        exit(2);
    }
    if (mode == MANAGE || mode == GROW) {
        mdfd = open_mddev(devlist->devname, 1);
        if (mdfd < 0)
            exit(1);
    } else
        /* non-existent device is OK */
        mdfd = open_mddev(devlist->devname, 0);
        if (mdfd == -2) {
            pr_err("device %s exists but is not an md array\n", devlist->devname);
            exit(1);
        }
    if ((int)ident.super_minor == -2) {
        struct stat stb;
        if (mdfd < 0) {
            pr_err("--super-minor=dev given, and listed device %s doesn't exist\n", devlist->devname);
            exit(1);
        }
        fstat(mdfd, &stb);
        ident.super_minor = minor(stb.st_rdev);
    }
    if (mdfd >= 0 && mode != MANAGE && mode != GROW) {
        /* We don't really want this open yet, we just might
         * have wanted to check some things
         */
        close(mdfd);
        mdfd = -1;
    }
}

if (s.raiddisks) {
    if (s.raiddisks == 1 && ! c.force && s.level != LEVEL_FAULTY) {
        pr_err("'1' is an unusual number of drives for an array, so it is probably\n" " a mistake. If you really mean it you will need to specify --force before\n" " setting the number of drives\n");
        exit(2);
    }
}
if (c.homehost == NULL && c.require_homehost)
    c.homehost = conf_get_homehost(&c.require_homehost);
if (c.homehost == NULL || strcasecmp(c.homehost, "<system>") == 0) {
    if (gethostname(sys_hostname, sizeof(sys_hostname)) == 0) {
        sys_hostname[sizeof(sys_hostname)-1] = 0;
        c.homehost = sys_hostname;
    }
}
if (c.homehost &&
    (!c.homehost[0] || strcasecmp(c.homehost, "<none>") == 0)) {
    c.homehost = NULL;
    c.require_homehost = 0;
}
rv = 0;

set_hooks(); /* set hooks from libs */

if (c.homecluster == NULL && (c.nodes > 0)) {
    c.homecluster = conf_get_homecluster();
    if (c.homecluster == NULL)
        rv = get_cluster_name(&c.homecluster);
    if (rv) {
        pr_err("The md can't get cluster name\n");
        exit(1);
    }
}

if (c.backup_file && data_offset != INVALID_SECTORS) {
    pr_err("--backup-file and --data-offset are incompatible\n");
    exit(2);
}

if ((mode == MISC && devmode == 'E') ||
    (mode == MONITOR && spare_sharing == 0))
    /* Anyone may try this */;
else if (geteuid() != 0) {
    pr_err("must be super-user to perform this action\n");
    exit(1);
}

ident.autof = c.autof;

if (c.scan && c.verbose < 2)
    /* --scan implied --brief unless -vv */
    c.brief = 1;
switch(mode) {
    case MANAGE:
        /**< readonly, add/remove, readwrite, runstop */
        if (c.readonly > 0)
            rv = Manage_ro(devlist->devname, mdfd, c.readonly);
        if (!rv && devs_found > 1)
            rv = Manage_subdevs(devlist->devname, mdfd, 
                               devlist->next, c.verbose, c.test, 
                               c.update, c.force);
        if (!rv && c.readonly < 0)
            rv = Manage_ro(devlist->devname, mdfd, c.readonly);
        if (!rv && c.runstop > 0)
            rv = Manage_run(devlist->devname, mdfd, &c);
        if (!rv && c.runstop < 0)
            rv = Manage_stop(devlist->devname, mdfd, c.verbose, 0);
        break;
    case ASSEMBLE:
        if (devs_found == 1 && ident.uuid_set == 0 &&
            ident.super_minor == UnSet && ident.name[0] == 0 &&
            !c.scan) {
            /**< Only a device has been given, so get details from config file */
            struct mddev_ident *array_ident = conf_get_ident(devlist->devname);
            if (array_ident == NULL) {
                pr_err("%s not identified in config file.\n", 
                       devlist->devname);
                rv |= 1;
                if (mdfd >= 0) 
                    close(mdfd);
            } else {
                if (array_ident->autof == 0)
                    array_ident->autof = c.autof;
                rv |= Assemble(ss, devlist->devname, array_ident, 
                                NULL, &c);
            }
        } else if (!c.scan)
            rv = Assemble(ss, devlist->devname, &ident, 
                          devlist->next, &c);
        else if (devs_found > 0) {
            if (c.update && devs_found > 1) {
                pr_err("can only update a single array at a time\n");
                exit(1);
            }
            if (c.backup_file && devs_found > 1) {
                pr_err("can only assemble a single array when providing a backup file.\n");
                exit(1);
            }
            for (dv = devlist ; dv ; dv=dv->next) {
struct mddev_ident *array_ident = conf_get_ident(dv->devname);
if (array_ident == NULL) {
    pr_err("%s not identified in config file.\n", dv->devname);
    rv |= 1;
    continue;
}
if (array_ident->autof == 0)
    array_ident->autof = c.autof;
rv |= Assemble(ss, dv->devname, array_ident, NULL, &c);
}
} else {
    if (c.update) {
        pr_err("--update not meaningful with a --scan assembly.\n");
        exit(1);
    }
    if (c.backup_file) {
        pr_err("--backup_file not meaningful with a --scan assembly.\n");
        exit(1);
    }
    rv = scan_assemble(ss, &c, &ident);
}
break;
case BUILD:
    if (c.delay == 0)
        c.delay = DEFAULT_BITMAP_DELAY;
    if (s.write_behind && !s.bitmap_file) {
        pr_err("write-behind mode requires a bitmap.\n");
        rv = 1;
        break;
    }
    if (s.raiddisks == 0) {
        pr_err("no raid-devices specified.\n");
        rv = 1;
        break;
    }
    if (s.bitmap_file) {
        if (strcmp(s.bitmap_file, "internal") == 0 ||
            strcmp(s.bitmap_file, "clustered") == 0) {
            pr_err("'internal' and 'clustered' bitmaps not supported with --build\n");
            rv |= 1;
            break;
        }
    }
    rv = Build(devlist->devname, devlist->next, &s, &c);
break;
case CREATE:
if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;
if (c.nodes) {
if (!s.bitmap_file ||
    strcmp(s.bitmap_file, "clustered") != 0) {
    pr_err("--nodes argument only compatible with --bitmap=clustered\n");
    rv = 1;
    break;
}
}
if (s.level != 1) {
    pr_err("--bitmap=clustered is currently supported with RAID mirror only\n");
    rv = 1;
    break;
}
if (s.write_behind && !s.bitmap_file) {
    pr_err("write-behind mode requires a bitmap\n");
    rv = 1;
    break;
}
}
if (s.raiddisks == 0) {
    pr_err("no raid-devices specified\n");
    rv = 1;
    break;
}
rv = Create(ss, devlist->devname,
    ident.name, ident.uuid_set ? ident.uuid : NULL,
    devs_found-1, devlist->next,
    &s, &c, data_offset);
break;
case MISC:
if (devmode == 'E') {
    if (devlist == NULL && !c.scan) {
        pr_err("No devices to examine\n");
        exit(2);
    }
    if (devlist == NULL) {
        devlist = conf_get_devs();
        if (devlist == NULL) {
            pr_err("No devices listed in %s\n", configfile?configfile:DefaultConfFile);
            exit(1);
        }
    }
}
rv = Examine(devlist, &c, ss);
} else if (devmode == DetailPlatform) {
rv = Detail_Platform(ss ? ss->ss : NULL, ss ? c.scan : 1,
c.verbose, c.export,
devlist ? devlist->devname : NULL);
} else if (devlist == NULL) {
if (devmode == 'S' && c.scan)
rv = stop_scan(c.verbose);
else if ((devmode == 'D' || devmode == Waitclean) &&
c.scan)
rv = misc_scan(devmode, &c);
else if (devmode == UdevRules)
rv = Write_rules(udev_filename);
else {
pr_err("No devices given.
");
ext(2);
}
} else
rv = misc_list(devlist, &ident, dump_directory, ss, &c);
break;
case MONITOR:
if (!devlist && !c.scan) {
pr_err("Cannot monitor: need --scan or at least one device\n");
rv = 1;
break;
}
if (pidfile && !daemonise) {
pr_err("Cannot write a pid file when not in daemon mode\n");
rv = 1;
break;
}
if (c.delay == 0) {
if (get_linux_version() > 2006016)
/* mdstat responds to poll */
c.delay = 1000;
else
c.delay = 60;
}
rv= Monitor(devlist, mailaddr, program,
&c, daemonise, oneshot,
dosyslog, pidfile, increments,
spare_sharing);
break;

case GROW:
if (array_size > 0) {
/* alway impose array size first, independent of
* anything else

* Do not allow level or raid_disks changes at the
* same time as that can be irreversibly destructive.
*/

struct mdinfo sra;
int err;
if (s.raiddisks || s.level != UnSet) {
    pr_err("cannot change array size in same operation as changing raiddisks or level.
"    " Change size first, then check that data is still intact.");
    rv = 1;
    break;
}

sysfs_init(&sra, mdfd, NULL);
if (array_size == MAX_SIZE)
    err = sysfs_set_str(&sra, NULL, "array_size", "default");
else
    err = sysfs_set_num(&sra, NULL, "array_size", array_size / 2);
if (err < 0) {
    if (errno == E2BIG)
        pr_err("--array-size setting is too large.");
    else
        pr_err("current kernel does not support setting --array-size");
    rv = 1;
    break;
}

if (devs_found > 1 && s.raiddisks == 0 && s.level == UnSet) {
    /* must be '-a'. */
if (s.size > 0 || s.chunk ||
    s.layout_str || s.bitmap_file) {
    pr_err("--add cannot be used with other geometry changes in --grow mode");
    rv = 1;
    break;
}
for (dv=devlist->next; dv ; dv=dv->next) {
    rv = Grow_Add_device(devlist->devname, mdfd,
        dv->devname);
    if (rv)
        break;
}
} else if (s.bitmap_file) {
if (s.size > 0 || s.raiddisks || s.chunk ||
    s.layout_str || devs_found > 1) {
    pr_err("--bitmap changes cannot be used with other geometry changes in --grow mode");
    rv = 1;
    break;
}
if (c.delay == 0)
    c.delay = DEFAULT_BITMAP_DELAY;
rv = Grow_addbitmap(devlist->devname, mdfd, &c, &s);
} else if (grow_continue)
rv = Grow_continue_command(devlist->devname,
    mdfd, c.backup_file,
    c.verbose);
else if (s.size > 0 || s.raiddisks || s.layout_str ||
    s.chunk != 0 || s.level != UnSet ||
    data_offset != INVALID_SECTORS) {
    rv = Grow_reshape(devlist->devname, mdfd,
        devlist->next,
        data_offset, &c, &s);
} else if (array_size == 0)
pr_err("no changes to --grow\n");
break;
case INCREMENTAL:
    if (rebuild_map) {
        RebuildMap();
    }
    if (c.scan) {
        rv = 1;
        if (devlist) {
            pr_err("In --incremental mode, a device cannot be given with --scan\n");
            break;
        }
        if (c.runstop <= 0) {
            pr_err("--incremental --scan meaningless without --run\n");
            break;
        }
        if (devmode == 'f') {
            pr_err("--incremental --scan --fail not supported\n");
            break;
        }
        rv = IncrementalScan(&c, NULL);
    }
    if (!devlist) {
        if (!rebuild_map && !c.scan) {
            pr_err("--incremental requires a device\n");
            rv = 1;
            break;
        }
        if (devmode == 'f') {
            if (devlist->next) {
                pr_err("--incremental --fail' can only handle one device\n");
                rv = 1;
                break;
            }
        }
        rv = IncrementalRemove(devlist->devname, remove_path,
c.verbose);
} else
rv = Incremental(devlist, &c, ss);
break;

if (conf_verify_devnames(array_list)) {
pr_err("Duplicate MD device names in conf file were found\n");
return 1;
}
if (devlist == NULL) {
pr_err("No devices listed in conf file were found\n");
return 1;
}
for (a = array_list; a ; a = a->next) {
a->assembled = 0;
if (a->autof == 0)
a->autof = c->autof;
}
if (map_lock(&map))
pr_err("failed to get exclusive lock on mapfile\n");
do {
failures = 0;
successes = 0;
rv = 0;
for (a = array_list; a ; a = a->next) {
int r;
if (a->assembled)
continue;
if (a->devname &&
    strcmp(a->devname, "<ignore>") == 0)
    continue;
r = Assemble(ss, a->devname, a, NULL, c);
if (r == 0) {
    a->assembled = 1;
successes++;
} else
    failures++;
rv |= r;
cnt++;
}
while (failures && successes);
if (c->homehost && cnt == 0) {
    /* Maybe we can auto-assemble something. 
     * Repeatedly call Assemble in auto-assemble mode 
     * until it fails 
     */
    int rv2;
    int acnt;
    ident->autof = c->autof;
    do {
        struct mddev_dev *devlist = conf_get_devs();
        acnt = 0;
        do {
            rv2 = Assemble(ss, NULL, ident, devlist, c);
            if (rv2 == 0) {
                cnt++;
                acnt++;
            }
        } while (rv2 != 2);
        /* Incase there are stacked devices, we need to go around again */
    } while (acnt);
    if (cnt == 0 && rv == 0) {
        pr_err("No arrays found in config file or automatically\n");
        rv = 1;
    } else if (cnt) 
        rv = 0;
    } else if (cnt == 0 && rv == 0) {
        pr_err("No arrays found in config file\n");
        rv = 1;
    }
    map_unlock(&map);
    return rv;
}

static int misc_scan(char devmode, struct context *c)
/* apply --detail or --wait-clean to * all devices in /proc/mdstat */
struct mdstat_ent *ms = mdstat_read(0, 1);
struct mdstat_ent *e;
struct map_ent *map = NULL;
int members;
int rv = 0;

for (members = 0; members <= 1; members++) {
    for (e = ms; e; e = e->next) {
        char *name = NULL;
        struct map_ent *me;
        struct stat stb;
        int member = e->metadata_version &&
            strncmp(e->metadata_version, 
                "external:/", 10) == 0;
        if (members != member)
            continue;
        me = map_by_devnm(&map, e->devnm);
        if (me && me->path
            && strcmp(me->path, "/unknown") != 0)
            name = me->path;
        if (name == NULL || stat(name, &stb) != 0)
            name = get_md_name(e->devnm);

        if (!name) {
            pr_err("cannot find device file for %s\n", 
                e->devnm);
            continue;
        }
        if (devmode == 'D')
            rv |= Detail(name, c);
        else
            rv |= WaitClean(name, -1, c->verbose);
        put_md_name(name);
    }
}
free_mdstat(ms);
return rv;

static int stop_scan(int verbose)
{
    /* apply --stop to all devices in /proc/mdstat */
    /* Due to possible stacking of devices, repeat until * nothing more can be stopped

int progress=1, err;
int last = 0;
int rv = 0;
do {
    struct mdstat_ent *ms = mdstat_read(0, 0);
    struct mdstat_ent *e;

    if (!progress) last = 1;
    progress = 0; err = 0;
    for (e=ms ; e ; e=e->next) {
        char *name = get_md_name(e->devnm);
        int mdfd;

        if (!name) {
            pr_err("cannot find device file for %s\n",
                    e->devnm);
            continue;
        }
        mdfd = open_mddev(name, 1);
        if (mdfd >= 0) {
            if (Manage_stop(name, mdfd, verbose, !last))
                err = 1;
            else
                progress = 1;
            close(mdfd);
        }
        put_md_name(name);
    }
    free_mdstat(ms);
} while (!last && err);
if (err)
    rv |= 1;
return rv;
}

static int misc_list(struct mddev_dev *devlist,
                     struct mddev_ident *ident,
                     char *dump_directory,
                     struct supertype *ss, struct context *c)
{
    struct mddev_dev *dv;
    int rv = 0;

    for (dv=devlist ; dv; dv=(rv & 16) ? NULL : dv->next) {
        int mdfd;
switch(dv->disposition) {
    case 'D':
        rv |= Detail(dv->devname, c);
        continue;
    case KillOpt: /* Zero superblock */
        if (ss)
            rv |= Kill(dv->devname, ss, c->force, c->verbose,0);
        else {
            int v = c->verbose;
            do {
                rv |= Kill(dv->devname, NULL, c->force, v, 0);
                v = -1;
            } while (rv == 0);
            rv &= ~2;
        }
        continue;
    case 'Q':
        rv |= Query(dv->devname); continue;
    case 'X':
        rv |= ExamineBitmap(dv->devname, c->brief, ss); continue;
    case ExamineBB:
        rv |= ExamineBadblocks(dv->devname, c->brief, ss); continue;
    case 'W':
        case WaitOpt:
            rv |= Wait(dv->devname); continue;
        case Waitclean:
            rv |= WaitClean(dv->devname, -1, c->verbose); continue;
        case KillSubarray:
            rv |= Kill_subarray(dv->devname, c->subarray, c->verbose);
            continue;
        case UpdateSubarray:
            if (c->update == NULL) {
                pr_err("-U/--update must be specified with --update-subarray\n");
                rv |= 1;
                continue;
            }
            rv |= Update_subarray(dv->devname, c->subarray,
                c->update, ident, c->verbose);
            continue;
        case Dump:
            rv |= Dump_metadata(dv->devname, dump_directory, c, ss);
            continue;
        case Restore:
            rv |= Restore_metadata(dv->devname, dump_directory, c, ss,
                (dv == devlist && dv->next == NULL));
            continue;
        case Action:
            rv |= SetAction(dv->devname, c->action);
continue;
}
if (dv->devname[0] == '/')
    mdfd = open_mddev(dv->devname, 1);
else {
    mdfd = open_dev(dv->devname);
    if (mdfd < 0)
        pr_err("Cannot open %s\n", dv->devname);
}
if (mdfd>=0) {
    switch(dv->disposition) {
    case 'R':
        c->runstop = 1;
        rv |= Manage_run(dv->devname, mdfd, c); break;
    case 'S':
        rv |= Manage_stop(dv->devname, mdfd, c->verbose, 0); break;
    case 'o':
        rv |= Manage_ro(dv->devname, mdfd, 1); break;
    case 'w':
        rv |= Manage_ro(dv->devname, mdfd, -1); break;
    }
    close(mdfd);
} else
    rv |= 1;
}

int SetAction(char *dev, char *action)
{
    int fd = open(dev, O_RDONLY);
    struct mdinfo mdi;
    if (fd < 0) {
        pr_err("Couldn't open %s: %s\n", dev, strerror(errno));
        return 1;
    }
    sysfs_init(&mdi, fd, NULL);
    close(fd);
    if (!mdi.sys_name[0]) {
        pr_err("%s is no an md array\n", dev);
        return 1;
    }

    if (sysfs_set_str(&mdi, NULL, "sync_action", action) < 0) {
        pr_err("Count not set action for %s to %s: %s\n", dev, action, strerror(errno));
        return 1;
    }
1.734 systemtap 4.1+gitAUTOINC+57c9aca9f1
r0

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```
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<signature of Ty Coon>, 1 April 1989
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```

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@c ispell-local-pdict: "ispell-dict"
@c End:
Description:
Concatenate two arbitrary file names.

Files:
lib/filenamecat.h
lib/filenamecat-lgpl.c
m4/filenamecat.m4

Depends-on:
dirname-lgpl

configure.ac:
gl_FILE_NAME_CONCAT_LGPL

Makefile.am:
lib_SOURCES += filenamecat-lgpl.c

Include:
"filenamecat.h"

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Description:
realpath, canonical_file_name: Provide canonical absolute file name

Files:
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4
Depends-on:

extensions
stdlib
nocrash
alloca-opt [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
errno [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
lstat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
malloc [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
memmove [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
pathmax [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
readlink [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
sys_stat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]

configure.ac:

\texttt{gl\_CANONICALIZE\_LGPL}
if test $HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test $REPLACE\_CANONICALIZE\_FILE\_NAME = 1; then
   \texttt{AC\_LIBOBJ([canonicalize-lgpl])}
fi

\texttt{gl\_MODULE\_INDICATOR([canonicalize-lgpl])}
\texttt{gl\_STDLIB\_MODULE\_INDICATOR([canonicalize_file_name])}
\texttt{gl\_STDLIB\_MODULE\_INDICATOR([realpath])}

Makefile.am:

Include:

\texttt{<stdlib.h>}

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all

Description:

Provide the GNU Free Documentation License in Texinfo format.

Files:

doc/fdl.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all

Description:
Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:
lib/getcwd-lgpl.c
m4/getcwd.m4

Depends-on:
unistd
strdup [test $REPLACE_GETCWD = 1]

configure.ac:
gl_FUNC_GETCWD_LGPL
if test $REPLACE_GETCWD = 1; then
   AC_LIBOBJ([getcwd-lgpl])
fi
gl_UNISTD_MODULE_INDICATOR([getcwd])

Makefile.am:

Include:
<unistd.h>

License:
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In working on a project for GNU, DO NOT study and follow any Unix
sources or other non-free software that might have any bearing on the
project. Don't refer to them at all, unless you are forced to for
non-GNU reasons.

It is not considered a serious problem if you have read Unix sources
or other non-free source code in the past for other purposes, provided
you don't copy anything in particular from them. However, referring
to them while you do the work could cause us legal problems later.
Description:
Provide the GNU General Public License version 2.0 in Texinfo format.

Files:
doc/gpl-2.0.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text
Maintainer: all
Please email the following information to assign@gnu.org, and we will send you the assignment form that covers the changes you have already written. That form will cover subsequent corrections to those changes, but it will not cover other unrelated future changes to the same program.

Please use your full legal name (in ASCII characters) as the subject line of the message.

REQUEST: SEND FORM FOR CHANGES ALREADY MADE

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written so far?] Please email the following information to assign@gnu.org, and we will send you the disclaimer form for your changes. This form is preferred when your changes are small, they do not add any nontrivial new files, and you are finished making them (aside perhaps from small bug fixes).

If you would like to make further contributions to the same package, and you would like to avoid the need to sign more papers when you
contribute them, you have another option: to sign a copyright assignment covering your future changes. If that is what you want to do, please tell the maintainer you would prefer to sign an assignment of past and future changes.

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[Do you have an employer who might have a basis to claim to own your changes?]

[Please write your email address here.]

[Please write your snail address here.]

[Please list the files involved, or give a brief description of the changes being disclaimed.]

Description:
Provide the GNU Affero General Public License version 3.0 in Texinfo format.

Files:
doc/agpl-3.0.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all
Description:
Extract specific portions of filenames.

Files:
lib/direname.h
lib/direname-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/direname.m4

Depends-on:
dosname
double-slash-root
malloc-posix
stdbool

configure.ac:
gl_DIRENAME_LGPL

Makefile.am:
lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:
"dirname.h"

License:
LGPLv2+

Maintainer:
Jim Meyering, Eric Blake
Files:
tests/test-update-copyright.sh

Depends-on:

configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])

Makefile.am:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir="$abs_aux_dir"
Files:
tests/test-canonicalize-lgpl.c
tests/signature.h
tests/null-ptr.h
tests/macros.h

Depends-on:
ignore-value
same-inode
symlink

configure.ac:

Makefile.am:
TESTS += test-canonicalize-lgpl
check_PROGRAMS += test-canonicalize-lgpl
@c The GNU General Public License.
@center Version 2, June 1991

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
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- Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the `copyright' line and a pointer to where the full notice is found.

@example
one line to give the program's name and a brief idea of what it does.
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

@example
Gnomovision version 69, Copyright (C) yyyy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the program, if
necessary. Here is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
@end example

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modules/error) state the true license of each file, and when you use
'gnulib-tool --lgpl --import <modules>', gnulib-tool either rewrites
the files to have an LGPL header as part of copying them from gnulib
to your project directory, or fails because the modules you requested
were not licensed under LGPL.

Some of the source files in lib/ have different licenses. Also, the
copy of maintain.texi in doc/ has a verbatim-copying license, and
doc/standards.texi and make-stds.texi are GFDL. Most (but not all)
m4/*.m4 files have nearly unlimited licenses.

Description:
Provide the GNU Lesser General Public License version 3.0 in Texinfo format.

Files:

doc/lgpl-3.0.texi

Depends-on:

configure.ac:

Makefile.am:
Include:

License:
unmodifiable license text

Maintainer:
all
Description:
Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:
doc/relocatable.texi
lib/relocatable.h
lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4

Depends-on:
strdup

configure.ac:
gl_RELOCATABLE_LIBRARY
if test SRELOCATABLE = yes; then
   AC_LIBOBJ([relocatable])
fi

Makefile.am:
DEFS += -DNO_XMALLOC

Include:
"relocatable.h"

License:
LGPLv2+

Maintainer:
Ben Pfaff
Description:
Update an FSF copyright year list to include the current year.

Files:
build-aux/update-copyright

Depends-on:

configure.ac:
Makefile.am:

Include:

License:
GPLed build tool

Maintainer:
Jim Meyering

Description:
Locating a program in PATH (LGPl ed version).

Files:
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:
stdbool
strdup
concat-filename
unistd

configure.ac:
gl_FINDPROG
gl_MODULE_INDICATOR([findprog-lgpl])

Makefile.am:
lib_SOURCES += findprog.h findprog.c

Include:
“findprog.h”

License:
LGPlv2+

Maintainer:
all

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Version 2, June 1991

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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you
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The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
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operating system on which the executable runs, unless that component
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Files:
tests/test-getcwd-lgpl.c
tests/signature.h
tests/macros.h

Depends-on:

configure.ac:

Makefile.am:
TESTS += test-getcwd-lgpl
check_PROGRAMS += test-getcwd-lgpl
test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)

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1.750 qemu 4.1.0 r0

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John R. Hauser
2018 January 20

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Key Dates
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* August 3, 2017

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== Sample Change Description / Commit Message =

=== Start of sample patch email message ====

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ====

=== Notes for sample patch email ====

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ====

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
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Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===
From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
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John R. Hauser
2018 January 20

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 */

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{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
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{ TARGET_FREEBSD_NR_sql_exit, "sql_exit", "%s(%#x)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sql_kill, "sql_kill", "%s(%d,%#x)", NULL, NULL, NULL },
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  <signature of Ty Coon>, 1 April 1989
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References
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This does mean that libfdt code could be "stolen" - say, included in a proprietary firmware and extended without contributing those extensions back to the libfdt mainline. While I hope that doesn't happen, I believe the goal of allowing libfdt to be widely used is more important than avoiding that. libfdt is quite small, and hardly rocket science; so the incentive for such impolite behaviour is small, and the inconvenience caused therby is not dire.

Licenses such as the LGPL which would allow code to be used in non-GPL software, but also require contributions to be returned were considered. However, libfdt is designed to be used in firmwares and other environments with unusual technical constraints. It's difficult to anticipate all possible changes which might be needed to meld libfdt into such environments and so difficult to suitably word a license that puts the boundary between what is and isn't permitted in the intended place. Again, I judged encouraging widespread use of libfdt by keeping the license terms simple and familiar to be the more
important goal.

**IMPORTANT** It's intended that all of libfdt as released remain permissively licensed this way. Therefore only contributions which are released under these terms can be merged into the libfdt mainline.

David Gibson <david@gibson.dropbear.id.au>  
(principal original author of dtc and libfdt)  
2 November 2007  
License-History.txt  
====================================

This file contains the history of license change and contributor's agreement changes.

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Key Dates
----------
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:
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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019
Replace BSD 2-Clause License with BSD + Patent License removing the need for the TianoCore Contribution Agreement.

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2. Your commit message must include your "Signed-off-by" signature,
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3. Your "Contributed-under" message explicitly states that the
   contribution is made under the terms of the specified
   contribution agreement. Your "Contributed-under" message
   must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.1
   The "TianoCore Contribution Agreement" is included below in
   this document.
4. Submit your code to the TianoCore project using the process
   that the project documents on its web page. If the process is
   not documented, then submit the code on development email list
   for the project.
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   Contributions using other licenses might be accepted, but further
   review will be required.

= Change Description / Commit Message / Patch Email =

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =
From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

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= Code Contributions =
To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.

2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.

3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0

The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

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= Change Description / Commit Message / Patch Email =

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

From: Contributor Name <contributor@example.com>

Subject: [PATCH] CodeModule: Brief-single-line-summary
Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message“ a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under” explicitly states that the contribution is
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  agreement is included below in this document.
* "Signed-off-by“ is the contributor's signature identifying them
  by their real/legal name and their email address.

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The header files "include/image.h" and "arch/*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *not* fall under the heading of "derived work".
-- Wolfgang Denk

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4) QEMU is a trademark of Fabrice Bellard.

Fabrice Bellard and the QEMU team
Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c7 Sep 2007 10:01:21 -00001.1
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void) {
  if (DEBUG_TRACE()) {
    x86emu_dump_regs();
+if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+  x86emu_dump_xregs();
+} else {
+  x86emu_dump_regs();
+}
  }

  if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
    printk("%04x:%04x", M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
    sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
  }
- printk("%-20s",buf1);
+ printk("%-20s",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
    if (cond)
      M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+}
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
REMARKS:
Handles opcode 0x0f,0xC8-0xCF

s32 x86emu_bswap(s32 reg)
{
   // perform the byte swap
   s32 temp = reg;
   reg = (temp & 0xFF000000) >> 24;
   reg |= (temp & 0xFF0000) >> 8;
   reg |= (temp & 0xFF00) << 8;
   reg |= (temp & 0xFF) << 24;
   return reg;
}

void x86emuOp2_bswap(u8 op2)
{
   /* byte swap 32 bit register */
   START_OF_INSTR();
   DECODE_PRINTF("BSWAP\t");
   switch (op2) {
      case 0xc8:
         DECODE_PRINTF("EAX\n");
         M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
         break;
      case 0xc9:
         DECODE_PRINTF("ECX\n");
         M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
         break;
      case 0xca:
         DECODE_PRINTF("EDX\n");
         M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
         break;
      case 0xcb:
         DECODE_PRINTF("EBX\n");
         M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
         break;
      case 0xcc:
         DECODE_PRINTF("ESP\n");
         M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
         break;
      case 0xcd:
         DECODE_PRINTF("EBP\n");
         M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
         break;
      case 0xce:
         DECODE_PRINTF("ESI\n");
         M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
break;
  case 0xcf:
    break;
  
  TRACE_AND_STEP();
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}

/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c7 Sep 2007 10:01:21 -0000
+++ ops.c20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t\t%d\n", imm);
    TRACE_AND_STEP();
-  push_word(imm);
+  if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    push_long(imm);
+  } else {
push_word(imm);
)
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
target = (u16)(M.x86.R_IP + (s16)offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
    M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+ }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--){
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val1 = fetch_data_byte(M.x86.R_SI);
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(val1, val2);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        +     M.x86.R_ECX -= 1;
        + else
        +     M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
    + if (M.x86.intr & INTR_HALTED)
    +     break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    @@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val1 = fetch_data_long(M.x86.R_SI);
    val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
} else {
    val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word((u16)val1, (u16)val2);
}
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX -= 1;
+ else
+     M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+ if (M.x86.intr & INTR_HALTED)
+     break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
-            M.x86.R_CX -= 1;
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
+            M.x86.R_SI += inc;
+            if (M.x86.intr & INTR_HALTED)
+                break;
+        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2783,9 +2812,11 @@
        count = 1;
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
-            /* move them until CX is ZERO. */
-            count = M.x86.R_CX;
+            /* move them until (E)CX is ZERO. */
+            count = M.x86.R_ECX;
+        } else {
+            count = M.x86.R_CX;
+        }
    }
count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_CX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
}
M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
-            M.x86.R_CX -= 1;
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
+            if (M.x86.intr & INTR_HALTED)
+                break;
+        }
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* move them until CX is ZERO. */
-            count = M.x86.R_CX;
-            /* move them until (E)CX is ZERO. */
+            count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+            M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
while (count--) {
    M.x86.R_SI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.R_SI = fetch_data_word(M.x86.R_SI);

if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
        }
        M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
break;  /* zero flag set means equal */
+ if (M.x86.intr & INTR_HALTED)
+     break;
+
}  
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
TRACE_AND_STEP();
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_long(M.x86.R_EAX, val);
}  
@@ -2960,16 +3012,21 @@
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
  }

    - M.x86.R_CX -= 1;
    + if (M.x86.mode & SYSMODE_32BIT_REP)
    +     M.x86.R_ECX -= 1;
    + else
    +     M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
      break;
    + if (M.x86.intr & INTR_HALTED)
    +     break;
+
}  
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_long(M.x86.R_EAX, val);
}  
@@ -2977,10 +3034,15 @@
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
  }

    - M.x86.R_CX -= 1;
    + if (M.x86.mode & SYSMODE_32BIT_REP)
M.x86.R_ECX -= 1;
else
M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
    break; /* zero flag set means equal */
if (M.x86.intr & INTR_HALTED)
    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}@@ -3471,10 +3533,10 @@
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
  M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
-  M.x86.R_CX -= 1;
-  if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+  if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+      M.x86.R_ECX -= 1;
+  else
+      M.x86.R_CX -= 1;
+  if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+      !ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
+      M.x86.R_IP = ip;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
-  M.x86.R_CX -= 1;
-  if (M.x86.R_CX != 0)
+  if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+      M.x86.R_ECX -= 1;
+  else
+      M.x86.R_CX -= 1;
+  if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+      ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
+      M.x86.R_IP = ip;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
-  M.x86.R_CX -= 1;
-  if (M.x86.R_CX != 0)
+  if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+      M.x86.R_ECX -= 1;
+  else
+      M.x86.R_CX -= 1;
+  if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+      ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
+      M.x86.R_IP = ip;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
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```c
+    M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
      M.x86.R_IP = ip;
      DECODE_CLEAR_SEGOVR();
      END_OF_INSTR();
      @@ -4085,8 +4156,10 @@
          target = (u16)(M.x86.R_IP + offset);
          DECODE_PRINTF2("%x\n", target);
          TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
          M.x86.R_IP = target;
          +JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
      DECODE_CLEAR_SEGOVR();
      END_OF_INSTR();}@@ -4213,6 +4286,7 @@
      ip = (s16)fetch_word_imm();
      ip += (s16)M.x86.R_IP;
      DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
      TRACE_AND_STEP();
      M.x86.R_IP = (u16)ip;
      DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
      cs = fetch_word_imm();
      DECODE_PRINTF2("%04x:\", cs);
      DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
      TRACE_AND_STEP();
      M.x86.R_IP = ip;
      M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
      offset = (s8)fetch_byte_imm();
      target = (u16)(M.x86.R_IP + offset);
      DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
      TRACE_AND_STEP();
      M.x86.R_IP = target;
      DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
      DECODE_PRINTF("REPNE\n");
      TRACE_AND_STEP();
      M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+      M.x86.mode |= SYSMODE_32BITREP;
      DECODE_CLEAR_SEGOVR();
```
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
 DECODE_PRINTF("REPE\n");
 TRACE_AND_STEP();
 M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
 break;
 case 4: /* jmp word ptr ... */
     destval = fetch_data_word(destoffset);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
     TRACE_AND_STEP();
     M.x86.R_IP = destval;
 break;
 case 5: /* jmp far ptr ... */
     destval = fetch_data_word(destoffset);
     destval2 = fetch_data_word(destoffset + 2);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
     TRACE_AND_STEP();
     M.x86.R_IP = destval;
     M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
 void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
 { #ifdef __HAS_LONG_LONG__
 - s64 res = (s64)d * (s64)s;
+ s64 res = (s64)(s32)d * (s64)(s32)s;

 *res_lo = (u32)res;
 *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
 void mul_long(u32 s)
 { #ifdef __HAS_LONG_LONG__
 - u64 res = (u32)M.x86.R_EAX * (u32)s;

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+ u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);

}  

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* in until CX is ZERO. */
    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
    /* in until (E)CX is ZERO. */
    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);

    while (count--) {
        single_in(size);
        M.x86.R_DI += inc;
    }
    M.x86.R_CX = 0;

    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        /* out until (E)CX is ZERO. */
        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);

        while (count--) {
            single_out(size);
            M.x86.R_SI += inc;
        }
        M.x86.R_CX = 0;
    }
    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* out until CX is ZERO. */
        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
        /* out until (E)CX is ZERO. */
        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);

        while (count--) {
            single_out(size);
            M.x86.R_SI += inc;
        }
        M.x86.R_CX = 0;
    }
    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c	7 Sep 2007 10:01:21 -0000.1
+++ sys.c	7 Sep 2007 10:03:13 -0000.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
#endif
@@ -220,7 +215,7 @@
{
  DB(if (DEBUG_IO_TRACE()))
  printk("inb %#04x \n", addr);
  -return inb(addr);
  +return 0;
}

/**************************************************************/
@@ -235,7 +230,7 @@
{
  DB(if (DEBUG_IO_TRACE()))
  printk("inw %#04x \n", addr);
  -return inw(addr);
  +return 0;
}

/**************************************************************/
@@ -250,7 +245,7 @@
{
  DB(if (DEBUG_IO_TRACE()))
  printk("inl %#04x \n", addr);
  -return inl(addr);
  +return 0;
}

/**************************************************************/
@@ -264,7 +259,6 @@
{
  DB(if (DEBUG_IO_TRACE()))
  printk("outb %#02x -> %#04x \n", val, addr);
  -outb(val, addr);
  return;
  */
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h7 Sep 2007 10:01:21 -0000
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -0000
@@ -40,8 +40,6 @@
# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
```c
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide whether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
SYSMODE_SEGOVR_GS      |      
SYSMODE_SEGOVR_SS      |      
SYSMODE_PREFIX_DATA    |      
-  SYSMODE_PREFIX_ADDR    |      
+  SYSMODE_PREFIX_ADDR    |      
+  SYSMODE_32BIT_REP)    
#define  INTR_SYNCH           0x1
#define  INTR_ASYNCH          0x2
@@ -274,9 +278,9 @@
*/
  u32              mode;
  volatile int     intr; /* mask of pending interrupts */
-int              debug;
+  volatile int     debug;
#if defined DEBUG
-int              check;
+  int              check;
  u16              saved_ip;
  u16              saved_cs;
  int              enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
```

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#define DEBUG_SAVE_IP_CS_F   0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_traceRegs(void);
@@ -200,5 +194,4 @@
 #ifdef __cplusplus
 }                       /* End of “C” linkage for C++ */
 #endif
-#endif /* __X86EMU_X86EMU_H */

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History
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-- vile: txtmode file-encoding=utf-8

1.753 o-profile 1.1.0 r0
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1.755 free-type 2.10.1 r0

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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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00INDEX                 - This file  
tsu-notify.mbox         - Notification sent per U.S. export regulations  
copy/                   - Copyright info & public-domain dedications  
From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008  
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>  
X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D  
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA  
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)  
Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.co.uk (m14.itconsult.net [193.201.42.13])  
by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088  
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)  
Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk
Open Source Used In Polaris_MR_Releases 17.3.4 9118

-----BEGIN PGP SIGNED MESSAGE-----
SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back (though that would be nice).

--amk

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!
I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=C2=A0The contents of this file are dedicated to the public domain. =C2=A0

Yes, that's fine.  Good luck with the new release!

-p
--20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>
>> I am the new maintainer of the Python Cryptography Toolkit, and I am
>> working on a new release at http://www.pycrypto.org/.
>
>> That's great!
>
>> I understand that you have made contributions to PyCrypto, under nickname
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>> domain all your contributions to PyCrypto, with the following notice?
>>
>> 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Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

===================================================================
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

===================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
===================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.e3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
by godt.dlitz.net (Postfix) with ESMTP id CCEA110073
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=


> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important Python library.

> I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJbnEjvBptnXfVAQLZjgP/ecG+JdZwNvPJRfsafrhY6+MHLDHI6agkJvJnSJQAcVHlZnVlVeR51XgyDUmakZjU4SOV7MqkhsKA9Ilet7PaD9VSYgn3ra5gElwI2DQYoOy5GeExXMm74qqrbr1PCcbCRmpaYNo+DZohwHkeFBjwDRA3wItOrH7SK4w9VBjtY=3D
=3DQduY
-----END PGP SIGNATURE-----
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On November 23, 2008, you wrote:
> Hi Wim,
> > I am the new maintainer of the Python Cryptography Toolkit, and I am
> > working on a new release at http://www.pycrypto.org/.
> >
> > I understand that you have made contributions to PyCrypto. May I, on
> > your behalf, dedicate to the public domain all your contributions to
> > PyCrypto, with the following notice?
> >
> > The contents of this file are dedicated to the public domain. To the
Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128 implementation, which already has a public-domain notice at the top of the file. But I am happy to have that, any any other code of mine that might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)
iQCVAwUBSSnAl8UnN8n93LBAQLP/gQAh7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FektbDOzkxgc5580MGGeeX/MVn8aw+1BHg0YD85gsntIDzkcQtb+BR/xAvJ5zKyA
J/Mn/l+6ekJQ3juh8IIPHLAduOXM9Rtguas/yRk+Doaq0xOPKoBx+/5+r1LIJtBcZ
wrPEa9Oui9s=
zSY9
-----END PGP SIGNATURE-----
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license...
to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAkko52IACgkQHBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjkkeyJaTbzEqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105
for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (smailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)
Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])
by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105
for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000
Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

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===================================================================

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===================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
    for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
    for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)
    Received: (vmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17 matched))
    receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
    Received: from rv-out-0708.google.com (unknown [209.85.198.249])
    by goedel.dlitz.net (Postfix) with ESMTP id 3C097449E7
    for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)
    Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
    for <dlitz@dlitz.net>; Sun, 8 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
    d=gmail.com; s=gamma;
    h=domainkey-signature:mime-version:received:in-reply-to:references;
    b=YWy9U32WCU/ksRqukHwaOZyJQBU4Yv5nl20U6mI/g=;
    b=0MJj21lxYjKge2zNJW3rIui9LqFXmey5Wp0pLtuNF+X3duyfhopTuBAKw7MwVY
    B5E6VQuGEYzbNsctyVgq6DhQjouCLYZymSviobmuDm5Dtk0xpDk0xCxQmHYaas
    L9/A6D3/j66kKrNBgX9mc0GPcZTvFYyP0RQ=
DomainKey-Signature: a=rsa-sha1; c=nofws;
    d=gmail.com; s=gamma;
    h=mime-version:in-reply-to:references:date:subject:from:to
    :content-type;
    b=Ym7CStuDEFJkay1AIjyWZkJmJA1InTcwCG6akBHAXLld8ht6PFcmlsfzzZGlhJClVJ8
    vljcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGr524zikHfpSSd5GFozxALVvGVH8p
    bqSHpfWKkKtpIp4gAQkiNeiq1GntR2j8U3fnRyg=
MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
    Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> People often ask me what license PyCrypto is covered by, if it's
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> dissemination and usage except those imposed by the laws of your
> country of residence. This software is provided "as is" without
> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> ===================================================================
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> not have to make source available or contribute your changes back
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> 
> --amk (www.amk.ca)
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Below, I have quoted a public domain dedication that was recommended in *Intellectual Property and Open Source: A Practical Guide to Protecting Code*, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
======================================================================

Regards,

- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IRC). I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

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Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).<br>

```
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Regards,

- Dwayne

--
Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>


--
Jeethu Rao

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified
Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

---

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

---

# EOF

From dlitz@dlitz.net Mon May 4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2553

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any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:
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Regards,
Joris

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======================================================================

Regards,
-Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

From dlitz@dlitz.net Tue May  5 17:53:47 2009
Date: Tue, 5 May 2009 17:53:47 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: joris@bontje.nl
Subject: Re: PyCrypto license clarification
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>
References: <20090505024914.GA9219@rivest.dlitz.net>
<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

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Regards,

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Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
>
>
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===================================================================

Regards,
- Dwayne
From markmoraes@yahoo.com Mon Apr 20 20:19:25:37 2009
X-Maildir-Dupe-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
for <drown@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
for <drown@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
Envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;
b=F2h2hFzpQxyKFZ8BhenniyupGw4Zvlek9B9Sk9lqKU+51W/TkSBij5YZIhklQdkQk0qLz5f4g8dT6bOME3s
EY1j10hx0K0u2UD0yoYTINBCsmdMQRo79b79b6t+p/EJhRpe+FiV6aoLV0FONWiHGDbghPT1duWXfVTgB
2aU=
DomainKey-Signature:a=rsa-sha1; q=nofws;
s=s1024; d=yahoo.com;
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
Received: From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

Open Source Used In Polaris_MR_Releases 17.3.4  9146
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
> People often ask me what license PyCrypto is covered by, if
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Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.
>
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
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>>
>> (www.amk.ca)
For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide_ to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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======================================================================

Regards,
    - Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
     Key-signing key - 19E1
     1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
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> holders as I can find if I can release PyCrypto under something
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> >
> > May I, on your behalf, dedicate to the public domain all your
> > contributions to PyCrypto, with the following notice?
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> >
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> >
> > ==
> > ===============
> >
> In case I haven't replied to this yet: Yes, this is fine with me.

robey
Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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1.767 gnome-desktop-testing 2014.1 r1

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1.769 arm-trusted-firmware-atf 1.2

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*/
#include "libfdt_env.h"

#include <fdt.h>
#include <libfdt.h>
#include "libfdt_internal.h"

int fdt_check_header(const void *fdt)
{
    if (fdt_magic(fdt) == FDT_MAGIC) {
        /* Complete tree */
        if (fdt_version(fdt) < FDT_FIRST_SUPPORTED_VERSION)
            return -FDT_ERR_BADVERSION;
        if (fdt_last_comp_version(fdt) > FDT_LAST_SUPPORTED_VERSION)
            return -FDT_ERR_BADVERSION;
    } else if (fdt_magic(fdt) == FDT_SW_MAGIC) {
        /* Unfinished sequential-write blob */
        if (fdt_size_dt_struct(fdt) == 0)
            return -FDT_ERR_BADSTATE;
    } else {
        return -FDT_ERR_BADMAGIC;
    }
    return 0;
}

const void *fdt_offset_ptr(const void *fdt, int offset, unsigned int len)
{
    const char *p;

    if (fdt_version(fdt) >= 0x11)
        if (((offset + len) < offset)
            || ((offset + len) > fdt_size_dt_struct(fdt)))
            return NULL;

    p = _fdt_offset_ptr(fdt, offset);

    if (p + len < p)
        return NULL;
    return p;
}
uint32_t fdt_next_tag(const void *fdt, int startoffset, int *nextoffset)
{
    const fdt32_t *tagp, *lenp;
    uint32_t tag;
    int offset = startoffset;
    const char *p;

    *nextoffset = -FDT_ERR_TRUNCATED;
    tagp = fdt_offset_ptr(fdt, offset, FDT_TAGSIZE);
    if (!tagp)
        return FDT_END; /* premature end */
    tag = fdt32_to_cpu(*tagp);
    offset += FDT_TAGSIZE;

    *nextoffset = -FDT_ERR_BADSTRUCTURE;
    switch (tag) {
        case FDT_BEGIN_NODE:
            /* skip name */
            do {
                p = fdt_offset_ptr(fdt, offset++, 1);
            } while (p && (*p != '\0'));
            if (!p)
                return FDT_END; /* premature end */
            break;

        case FDT_PROP:
            lenp = fdt_offset_ptr(fdt, offset, sizeof(*lenp));
            if (!lenp)
                return FDT_END; /* premature end */
            /* skip-name offset, length and value */
            offset += sizeof(struct fdt_property) - FDT_TAGSIZE
                + fdt32_to_cpu(*lenp);
            break;

        case FDT_END:
            case FDT_END_NODE:
            case FDT_NOP:
                break;

        default:
            return FDT_END;
    }

    if (!fdt_offset_ptr(fdt, startoffset, offset - startoffset))
        return FDT_END; /* premature end */

    *nextoffset = FDT_TAGALIGN(offset);
    return tag;
int _fdt_check_node_offset(const void *fdt, int offset)
{
    if ((offset < 0) || (offset % FDT_TAGSIZE)
        || (fdt_next_tag(fdt, offset, &offset) != FDT_BEGIN_NODE))
        return -FDT_ERR_BADOFFSET;

    return offset;
}

int _fdt_check_prop_offset(const void *fdt, int offset)
{
    if ((offset < 0) || (offset % FDT_TAGSIZE)
        || (fdt_next_tag(fdt, offset, &offset) != FDT_PROP))
        return -FDT_ERR_BADOFFSET;

    return offset;
}

int fdt_next_node(const void *fdt, int offset, int *depth)
{
    int nextoffset = 0;
    uint32_t tag;

    if (offset >= 0)
        if ((nextoffset = _fdt_check_node_offset(fdt, offset)) < 0)
            return nextoffset;

    do {
        offset = nextoffset;
        tag = fdt_next_tag(fdt, offset, &nextoffset);

        switch (tag) {
            case FDT_PROP:
            case FDT_NOP:
                break;
            case FDT_BEGIN_NODE:
                if (depth)
                    (*depth)++;
                break;
            case FDT_END_NODE:
                if (depth && ((--(*depth)) < 0))
                    return nextoffset;
                break;
        }
    } while (tag != FDT_END_NODE);

    return offset;
}
case FDT_END:
    if ((nextoffset >= 0)
        || ((nextoffset == -FDT_ERR_TRUNCATED) && !depth))
        return -FDT_ERR_NOTFOUND;
    else
        return nextoffset;
}
} while (tag != FDT_BEGIN_NODE);

return offset;
}

int fdt_first_subnode(const void *fdt, int offset)
{
    int depth = 0;

    offset = fdt_next_node(fdt, offset, &depth);
    if (offset < 0 || depth != 1)
        return -FDT_ERR_NOTFOUND;
    return offset;
}

int fdt_next_subnode(const void *fdt, int offset)
{
    int depth = 1;

    /*
     * With respect to the parent, the depth of the next subnode will be
     * the same as the last.
     *
     */
    do {
        offset = fdt_next_node(fdt, offset, &depth);
        if (offset < 0 || depth < 1)
            return -FDT_ERR_NOTFOUND;
    } while (depth > 1);

    return offset;
}

const char * _fdt_find_string(const char *strtab, int tabsize, const char *s)
{
    int len = strlen(s) + 1;
    const char *last = strtab + tabsize - len;
    const char *p;

    for (p = strtab; p <= last; p++)
        if (memcmp(p, s, len) == 0)
return p;
return NULL;
}

int fdt_move(const void *fdt, void *buf, int bufsize)
{
FDT_CHECK_HEADER(fdt);

if (fdt_totalsize(fdt) > bufsize)
return -FDT_ERR_NOSPACE;

memmove(buf, fdt, fdt_totalsize(fdt));
return 0;
}

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/*
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*/

#ifndef __ASSEMBLY__

#include <libfdt_env.h>

struct fdt_header {
    fdt32_t magic; /*!< magic word FDT_MAGIC */
    fdt32_t totalsize; /*!< total size of DT block */
    fdt32_t off_dt_struct; /*!< offset to structure */
    fdt32_t off_dt_strings; /*!< offset to strings */
    fdt32_t off_mem_rsvmap; /*!< offset to memory reserve map */
    fdt32_t version; /*!< format version */
    fdt32_t last_comp_version; /*!< last compatible version */

    /* version 2 fields below */
    fdt32_t boot_cpuid_phys; /*!< Which physical CPU id we're booting on */
    /* version 3 fields below */
    fdt32_t size_dt_strings; /*!< size of the strings block */

    /* version 17 fields below */
    fdt32_t size_dt_struct; /*!< size of the structure block */
};

struct fdt_reserve_entry {
    fdt64_t address;
    fdt64_t size;
};

struct fdt_node_header {
    fdt32_t tag;
    char name[];
};

struct fdt_property {
    fdt32_t tag;
    fdt32_t len;
    fdt32_t nameoff;
    char data[];
};

#endif /* !__ASSEMBLY */

#define FDT_MAGIC 0xd00dfeed /*!< 4: version, 4: total size */
#define FDT_TAGSIZE sizeof(fdt32_t)
#define FDT_BEGIN_NODE 0x1 /* Start node: full name */
#define FDT_END_NODE 0x2 /* End node */
#define FDT_PROP 0x3 /* Property: name off, size, content */
#define FDT_NOP 0x4 /* nop */
#define FDT_END 0x9

#define FDT_V1_SIZE(7*sizeof(fdt32_t))
#define FDT_V2_SIZE(FDT_V1_SIZE + sizeof(fdt32_t))
#define FDT_V3_SIZE(FDT_V2_SIZE + sizeof(fdt32_t))
#define FDT_V16_SIZE FDT_V3_SIZE
#define FDT_V17_SIZE(FDT_V16_SIZE + sizeof(fdt32_t))

#endif /* _FDT_H */

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#
LIBFDT_SRCS:=\$(addprefix lib/libfdt/,
  fdt.c
  fdt_addresses.c
)

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fdt_ro.c
fdt_rwlock.c
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INCLUDES+=-Iinclude/lib/libfdt

1.770 libevent 2.1.11 r0

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1.771 libuv 1.11.0 1

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#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS
  uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
  int rcount;
  int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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1.772 python-wcwidth 0.1.7 r0

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1.773 python-pip 18.0 r0

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1.775 stuntman 1.2.1

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1.777 pyasn1 0.4.7 r0

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
-----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
```
Record ::= SEQUENCE {
  id       INTEGER,
  room [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType(  # As per the provided example
      'room', Integer().subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 0))
    ),
    DefaultedNamedType(  # As per the provided example
      'house', Integer(0).subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 1))
    ),
  )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
```
Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```
```
With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.
ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting 'discussions `<https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers `<https://developers.google.com/protocol-buffers/> or `FlatBuffers `<https://google.github.io/flatbuffers/> for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

   /pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

   /example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

   /download

Changes
-------

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.

.. toctree::
   :maxdepth: 1
License
-------

The PyASN1 software is distributed under 2-clause BSD License.

Getting help
------------


Books on ASN.1
--------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.
No license file was found, but licenses were detected in source scan.

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1.778.1 Available under license :

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

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library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.779 libnewt 0.52.20 r0
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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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freedom to share and change it. By contrast, the GNU General Public
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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the 
application. Therefore, Subsection 2d requires that any 
application-supplied function or table used by this function must 
be optional: if the application does not supply it, the square 
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If 
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entire whole, and thus to each and every part regardless of who wrote 
it.

Thus, it is not the intent of this section to claim rights or contest 
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exercise the right to control the distribution of derivative or 
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library 
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the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public 
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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 
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the 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.

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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:

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uses the Library", as object code and/or source code, so that the
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c) If distribution of the work is made by offering access to copy
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specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

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1.780 dmidecode 3.1

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   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) 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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   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. 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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1.781 lvm2 2.02.180 r0

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/*
 * Coverity usage:
 *
 * translate model into xml
 * cov-make-library -of coverity_model.xml coverity_model.c
 * 
 * compile (using outdir 'cov'):
* cov-build --dir= cov make CC=gcc
*
* analyze (agressively, using 'cov')
* cov-analyze --dir cov --wait-for-license --hfa --concurrency --enable-fnptr --enable-constraint-fpp --security --all --
aggressiveness-level=high --field-offset-escape --user-model-file=coverity/coverity_model.xml
*
* generate html output (to 'html' from 'cov'):
* cov-format-errors --dir cov --html-output html
*/

struct lv_segment;
struct logical_volume;

struct lv_segment *first_seg(const struct logical_volume *lv)
{
    return ((struct lv_segment **)lv)[0];
}

struct lv_segment *last_seg(const struct logical_volume *lv)
{
    return ((struct lv_segment **)lv)[0];
}

const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "STRING";
}

struct logical_volume *origin_from_cow(const struct logical_volume *lv)
{
    if (lv)
        return lv;
    __coverity_panic__();
}

/* simple_memccpy() from glibc */
void *memccpy(void *dest, const void *src, int c, size_t n)
{
    const char *s = src;
    char *d = dest;
    while (n-- > 0)
        if ((*d++ = *s++) == (char) c)
            return d;
    return 0;
}
/*
  * 2 lines below needs to be placed in coverity/config/user_nodefs.h
  * Not sure about any other way.
  * Without them, coverity shows warning since x86 system header files
  * are using inline assembly to reset fdset
  */
  //#endif FD_ZERO model_FD_ZERO
  //void model_FD_ZERO(void *fdset);

  void model_FD_ZERO(void *fdset)
  {
    unsigned i;

    for (i = 0; i < 1024 / 8 / sizeof(long); ++i)
      ((long*)fdset)[i] = 0;
  }

  /* Resent Coverity reports quite weird errors... */
  int *__errno_location(void)
  {
  }
  }
  const unsigned short **__ctype_b_loc (void)
  {
  }

  /*
  * Added extra pointer check to not need these models,
  * for now just keep then in file
  */

  /*
  struct cmd_context;
  struct profile;

  const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
  {
    return "text";
  }

  const char *find_config_tree_str_allow_empty(struct cmd_context *cmd, int id, struct profile *profile)
  {
    return "text";
  }
  */
/*
* Until fixed coverity case# 00531860:
*   A FORWARD_NULL false positive on a recursive function call
*
* model also these functions:
*/

const struct dm_config_node;
const struct dm_config_node *find_config_tree_array(struct cmd_context *cmd, int id, struct profile *profile)
{
    const struct dm_config_node *cn;

    return cn;
}

const struct dm_config_node *find_config_tree_node(struct cmd_context *cmd, int id, struct profile *profile)
{
    const struct dm_config_node *cn;

    return cn;
}

int find_config_tree_bool(struct cmd_context *cmd, int id, struct profile *profile)
{
    int b;

    return b;
}

*/

1.782 intltool 0.51.0 r0

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### 1.786 xz 5.2.4 r0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  version: 3
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<one line to give the program's name and a brief idea of what it does.>
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

#!perl

=head1 NAME
copyright.t

=head1 DESCRIPTION
Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); }

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\b\d{4,}\b/;  # or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year#
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b\d{4,}\b/;  # or die "Copyright statement not found in perl -v output '$output'";

$year;
}

1.789 enum34 1.1.6
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1.790 libcpuid 0.4.0

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Upstream-Name: libcpuid
Source: http://github.com/anrieff/libcpuid

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1.793 inflate-c c10p1
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/* $Id: inflate.c,v 3.2.60.1 1996/03/18 19:11:09 gstovall Exp $ 
 * $Source: /release/111/cvs/Xsys/czip/inflate.c,v $ 
 *------------------------------------------------------------------*/
* inflate.c - unzip inflate
 *
* December 1994, Michael Beesley
 *
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 *
*------------------------------------------------------------------*/
* $Log: inflate.c,v $ 
* Revision 3.2.60.1 1996/03/18 19:11:09 gstovall 
* Branch: California_branch 
* Elvis has left the building. He headed out to California, and took the 
* port ready changes with him. 
* *
* Revision 3.2.26.2 1996/03/07 08:42:15 mdb 
* Branch: DeadKingOnAThrone_branch 
* cisco and ANSI/POSIX libraries. 
* *
* Revision 3.2.26.1 1996/02/20 13:44:31 dstine 
* Branch: DeadKingOnAThrone_branch 
* Sync from DeadKingOnAThrone_baseline_960122 to 
* DeadKingOnAThrone_baseline_960213 
* *
* Revision 3.2 1995/11/17 08:58:13 hampton 
* Remove old entries from the RCS header logs. 
* *
* Revision 3.1 1995/11/09 11:15:19 shaker 
* Bump version numbers from 2.x to 3.x. 
* */
* Revision 2.2  1995/06/23  22:23:30  mbeesley
* CSCdi36360:  95q1 compiler fails to build czip_elf
* Work-arround the compiler bug by declaring variables static.
* This allows zipped images for c4500, rsp to ship in 11.0.
* 
* Revision 2.1  1995/06/07  20:22:19  hampton
* Bump version numbers from 1.x to 2.x.
* 
* $Endlog$
*/

/* inflate.c -- Not copyrighted 1992 by Mark Adler
version c10p1, 10 January 1993 */

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prefer that if you modify it and redistribute it that you include
comments to that effect with your name and the date. Thank you.
[The history has been moved to the file ChangeLog.] */

** 1.794 openssl 1.1.1c  
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1.796 python-asn1crypto 0.24.0 r0

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of
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the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
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that they refer to the ordinary GNU General Public License, version 2,
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Once this change is made in a given copy, it is irreversible for
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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[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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freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

   If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

   However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

   When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

   If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

   Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.807 boost 1.71.0 r0
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Gocheck - A rich testing framework for Go

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1.809 sysfsutils 2.1.0 r5

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1.810 sfdisk 2.25.2 r0
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Initialize empty image
f1c9645db1c14efdc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img
---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device     Boot Start   End Sectors Size Id Type
<removed>1  2048   4095   2048  1M 83 Linux

-------------------
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device     Boot Start   End Sectors Size Id Type
<removed>1  2048   4095   2048  1M 83 Linux
<removed>2  4096  20479  16384   8M a5 FreeBSD

-------------------
Create default BSD
2e1ceee529cb59c9341afe0443f196a1 bsd.img
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
  a      4096  6144    2049    1M 4.2BSD       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
  a      4096  6144    2049 1M 4.2BSD       0     0   0
Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

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1.811 lttng-ust 2.10.3 r0

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 */

#ifndef _LTTNG_UST_CTL_PRIVATE_H
#define _LTTNG_UST_CTL_PRIVATE_H

#endif

#undef _LTTNG_UST_CTL_PRIVATE_H

#define _LTTNG_UST_CTL_PRIVATE_H

#include <lttng/ust-ctl.h>

/*
 * Map channel lttng_ust_shm_handle and add streams. Typically performed
 * by the application to map the objects into its memory space.
 */
struct lttng_ust_shm_handle *
ustctl_map_channel(struct lttng_ust_object_data *chan_data);
int ustctl_add_stream(struct lttng_ust_shm_handle *lttng_ust_shm_handle,
struct lttng_ust_object_data *stream_data);
/*
 * Note: the lttng_ust_object_data from which the lttng_ust_shm_handle
 * is derived can only be released after unmapping the handle.
 */
void ustctl_unmap_channel(struct lttng_ust_shm_handle *lttng_ust_shm_handle);
#endif /* _LTTNG_UST_CTL_PRIVATE_H */

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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/* GNU m4 -- A simple macro processor


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*/

#include "m4.h"
#include <getopt.h>
#include <limits.h>
#include <signal.h>
#include "c-stack.h"
#include "ignore-value.h"
#include "progname.h"
#include "version-etc.h"

#ifdef DEBUG_STKOVF
#include "assert.h"
#endif

#define AUTHORS "Rene' Seindal"

static void usage (int) M4_GNUC_NORETURN;

int sync_output = 0;

/* Enable sync output for /lib/cpp (-s). */
int sync_output = 0;
/* Debug (-d[flags]). */
int debug_level = 0;

/* Hash table size (should be a prime) (-Hsize). */
size_t hash_table_size = HASHMAX;

/* Disable GNU extensions (-G). */
int no_gnu_extensions = 0;

/* Prefix all built-in functions by `m4_'. */
int prefix_all_builtins = 0;

/* Max length of arguments in trace output (-lsize). */
int max_debug_argument_length = 0;

/* Suppress warnings about missing arguments. */
int suppress_warnings = 0;

/* If true, then warnings affect exit status. */
static bool fatal_warnings = false;

/* If not zero, then value of exit status for warning diagnostics. */
int warning_status = 0;

/* Artificial limit for expansion_level in macro.c. */
int nesting_limit = 1024;

#ifdef ENABLE_CHANGEWORD
/* User provided regexp for describing m4 words. */
const char *user_word_regexp = ""
#endif

/* Global catchall for any errors that should affect final error status, but
 where we try to continue execution in the meantime. */
int retcode;

struct macro_definition
{
    struct macro_definition *next;
    int code; /* D, U, s, t, \l', or DEBUGFILE_OPTION. */
    const char *arg;
};
typedef struct macro_definition macro_definition;

/* Error handling functions. */

/*-----------------------.
void m4_error (int status, int errnum, const char *format, ...)
{
  va_list args;
  va_start (args, format);
  verror_at_line (status, errnum, current_line ? current_file : NULL,
  current_line, format, args);
  if (fatal_warnings && ! retcode)
    retcode = EXIT_FAILURE;
  va_end (args);
}

/*-------------------------------.
| Wrapper around error_at_line. |
`-------------------------------*/

void m4_error_at_line (int status, int errnum, const char *file, int line,
  const char *format, ...)
{
  va_list args;
  va_start (args, format);
  verror_at_line (status, errnum, line ? file : NULL, line, format, args);
  if (fatal_warnings && ! retcode)
    retcode = EXIT_FAILURE;
  va_end (args);
}

#ifndef SIGBUS
#define SIGBUS SIGILL
#endif

#ifndef NSIG
#ifndef MAX
#define MAX(a,b) ((a) < (b) ? (b) : (a))
#endif
#define NSIG (MAX (SIGABRT, MAX (SIGILL, MAX (SIGFPE,
  MAX (SIGSEGV, SIGBUS)))) + 1)
#endif

/* Pre-translated messages for program errors. Do not translate in
the signal handler, since gettext and strsignal are not
async-signal-safe. */
static const char * volatile program_error_message;
static const char * volatile signal_message[NSIG];
/* Print a nicer message about any programmer errors, then exit. This
must be async-signal safe, since it is executed as a signal
handler. If SIGNO is zero, this represents a stack overflow; in
that case, we return to allow c_stack_action to handle things. */
static void M4_GNUC_PURE
fault_handler (int signo)
{
if (signo)
{
/* POSIX states that reading static memory is, in general, not
async-safe. However, the static variables that we read are
never modified once this handler is installed, so this
particular usage is safe. And it seems an oversight that
POSIX claims strlen is not async-safe. Ignore write
failures, since we will exit with non-zero status anyway. */
#define WRITE(f, b, l) ignore_value (write (f, b, l))
WRITE (STDERR_FILENO, program_name, strlen (program_name));
WRITE (STDERR_FILENO, ": ", 2);
WRITE (STDERR_FILENO, program_error_message,
 strlen (program_error_message));
if (signal_message[signo])
{
  WRITE (STDERR_FILENO, ": ", 2);
  WRITE (STDERR_FILENO, signal_message[signo],
  strlen (signal_message[signo]));
}
WRITE (STDERR_FILENO, ":\n", 1);
#undef WRITE
_exit (EXIT_INTERNAL_ERROR);
}

/*---------------------------------------------.
| Print a usage message and exit with STATUS. |
`---------------------------------------------*/
static void
usage (int status)
{
if (status != EXIT_SUCCESS)
  xfprintf (stderr, "Try \"%s --help\' for more information.\n", program_name);
else
  {
    xprintf ("Usage: %s [OPTION]... [FILE]..\n", program_name);
    fputs ("
Process macros in FILEs. If no FILE or if FILE is `\', standard input\n"
is read.
 *
 
 fputs ("

 Mandatory or optional arguments to long options are mandatory or optional
 for short options too.

 Operation modes:

 --help       display this help and exit
 --version    output version information and exit
 
 xprintf ("

 -E, --fatal-warnings once: warnings become errors, twice: stop
 execution at first error

 -i, --interactive unbuffer output, ignore interrupts

 -P, --prefix-builtins force a `m4_` prefix to all builtins

 -Q, --quiet, --silent suppress some warnings for builtins

 --warn-macro-sequence[=REGEXP] warn if macro definition matches REEXP
 default %s

 
 
 Preprocessor features:

 -D, --define=NAME[=VALUE] define NAME as having VALUE, or empty

 -I, --include=DIRECTORY append DIRECTORY to include path

 -s, --synclines generate `#line NUM "FILE"` lines

 -U, --undefine=NAME undefine NAME

 

 

 Limits control:

 -g, --gnu override -G to re-enable GNU extensions

 -G, --traditional suppress all GNU extensions

 -H, --hashsize=PRIME set symbol lookup hash table size [509]

 -L, --nesting-limit=NUMBER change nesting limit, 0 for unlimited [%d]

 Frozen state files:

 -F, --freeze-state=FILE produce a frozen state on FILE at end

 -R, --reload-state=FILE reload a frozen state from FILE at start

fputs ("\n\nDebugging:\n\n-d, --debug[=FLAGS] set debug level (no FLAGS implies `aeq')\n--debugfile[=FILE] redirect debug and trace output to FILE\n(default stderr, discard if empty string)\n-l, --arglength=NUM restrict macro tracing size\n-t, --trace=NAME trace NAME when it is defined\n", stdout);
\nFLAGS is any of:\n\na show actual arguments\n\nc show before collect, after collect and after call\n\ne show expansion\n\nf say current input file name\n\ni show changes in input files\n\nl say current input line number\n\np show results of path searches\n\nq quote values as necessary, with a or e flag\n\nt trace for all macro calls, not only traceon'ed\n\nx add a unique macro call id, useful with c flag\n\n` shorthand for all of the above flags\n", stdout);
\nfputs ("\n\nIf defined, the environment variable `M4PATH' is a colon-separated list of directories included after any specified by `-I'.\n" , stdout);
\nfputs ("\n\nExit status is 0 for success, 1 for failure, 63 for frozen file version mismatch, or whatever value was passed to the m4exit macro.\n" , stdout);
\nemit_bug_reporting_address ();
}
exit (status);
}

/*-----------------------------*/
| Decode options and launch execution. |
| ------------------------------*/

/* For long options that have no equivalent short option, use a non-character as a pseudo short option, starting with CHAR_MAX + 1. */
enum
{
    DEBUGFILE_OPTION = CHAR_MAX + 1, /* no short opt */
}
DIVERSIONS_OPTION, /* not quite -N, because of message */
WARN_MACRO_SEQUENCE_OPTION, /* no short opt */

HELP_OPTION, /* no short opt */
VERSION_OPTION /* no short opt */
};

static const struct option long_options[] =
{
    { "arglength", required_argument, NULL, 'l' },
    { "debug", optional_argument, NULL, 'd' },
    { "define", required_argument, NULL, 'D' },
    { "error-output", required_argument, NULL, 'o' }, /* FIXME: deprecate in 2.0 */
    { "fatal-warnings", no_argument, NULL, 'F' },
    { "freeze-state", required_argument, NULL, 'f' },
    { "gnu", no_argument, NULL, 'g' },
    { "hashsize", required_argument, NULL, 'H' },
    { "include", required_argument, NULL, 'i' },
    { "nesting-limit", required_argument, NULL, 'L' },
    { "prefix-builtins", no_argument, NULL, 'P' },
    { "quiet", no_argument, NULL, 'q' },
    { "reload-state", required_argument, NULL, 'R' },
    { "silent", no_argument, NULL, 'S' },
    { "synclines", no_argument, NULL, 's' },
    { "trace", required_argument, NULL, 't' },
    { "traditional", no_argument, NULL, 'G' },
    { "undefine", required_argument, NULL, 'U' },
    #ifdef ENABLE_CHANGEWORD
    { "word-regexp", required_argument, NULL, 'W' },
    #endif
    { "debugfile", optional_argument, NULL, DEBUGFILE_OPTION },
    { "diversions", required_argument, NULL, DIVERSIONS_OPTION },
    { "warn-macro-sequence", optional_argument, NULL, WARN_MACRO_SEQUENCE_OPTION },
    { "help", no_argument, NULL, HELP_OPTION },
    { "version", no_argument, NULL, VERSION_OPTION },

    { NULL, 0, NULL, 0 },
};

/* Process a command line file NAME, and return true only if it was stdin. */
static void
process_file (const char *name)
{
    if (STREQ (name, "-"))
/* If stdin is a terminal, we want to allow `m4 - file -`
to read input from stdin twice, like GNU cat. Besides,
there is no point closing stdin before wrapped text, to
minimize bugs in syscmd called from wrapped text. */
push_file (stdin, "stdin", false);
}
else
{
char *full_name;
FILE *fp = m4_path_search (name, &full_name);
if (fp == NULL)
{
    error (0, errno, _("cannot open `%s'"), name);
    /* Set the status to EXIT_FAILURE, even though we
     * continue to process files after a missing file. */
    retcode = EXIT_FAILURE;
    return;
}
push_file (fp, full_name, true);
free (full_name);
}
expand_input ();

/* POSIX requires only -D, -U, and -s; and says that the first two
must be recognized when interspersed with file names. Traditional
behavior also handles -s between files. Starting OPTSTRING with
`-' forces getopt_long to hand back file names as arguments to opt
`\l', rather than reordering the command line. */
 ifdef ENABLE_CHANGEWORD
#else
#endif

int main (int argc, char * const *argv)
{
    struct sigaction act;
    macro_definition *head;   /* head of deferred argument list */
    macro_definition *tail;
    macro_definition *defn;
    int optchar;              /* option character */
    macro_definition *defines;
    bool interactive = false;
    bool seen_file = false;

const char *debugfile = NULL;
const char *frozen_file_to_read = NULL;
const char *frozen_file_to_write = NULL;
const char *macro_sequence = "";

set_program_name (argv[0]);
retcode = EXIT_SUCCESS;
atexit (close_stdin);

#include_init ();
debug_init ();

/* Stack overflow and program error handling. Ignore failure to
install a handler, since this is merely for improved output on
crash, and we should never crash :). We install SIGBUS and
SIGSEGV handlers prior to using the c-stack module; depending on
the platform, c-stack will then override none, SIGSEGV, or both
handlers. */
program_error_message
= xasprintf (_("internal error detected; please report this bug to <\%s>"),
PACKAGE_BUGREPORT);
signal_message[SIGSEGV] = xstrdup (strsignal (SIGSEGV));
signal_message[SIGABRT] = xstrdup (strsignal (SIGABRT));
signal_message[SIGILL] = xstrdup (strsignal (SIGILL));
signal_message[SIGFPE] = xstrdup (strsignal (SIGFPE));
if (SIGBUS != SIGILL && SIGBUS != SIGSEGV)
signal_message[SIGBUS] = xstrdup (strsignal (SIGBUS));
sigemptyset (&act.sa_mask);
/* One-shot - if we fault while handling a fault, we want to revert
to default signal behavior. */
act.sa_flags = SA_NODEFER | SA_RESETHAND;
act.sa_handler = fault_handler;
sigaction (SIGSEGV, &act, NULL);
sigaction (SIGABRT, &act, NULL);
sigaction (SIGILL, &act, NULL);
sigaction (SIGFPE, &act, NULL);
sigaction (SIGBUS, &act, NULL);
if (c_stack_action (fault_handler) == 0)
nesting_limit = 0;

#ifdef DEBUG_STKOVF
/* Make it easier to test our fault handlers. Exporting M4_CRASH=0
attempts a SIGSEGV, exporting it as 1 attempts an assertion
failure with a fallback to abort. */
{
char *crash = getenv ("M4_CRASH");
if (crash)
if (!strtol (crash, NULL, 10))
++*(int *) 8;
assert (false);
abort ();
}
}
#endif /* DEBUG_STKOVF */

/* First, we decode the arguments, to size up tables and stuff. */
head = tail = NULL;
while ((optchar = getopt_long (argc, (char **) argv, OPTSTRING,
    long_options, NULL)) != -1)
switch (optchar)
{
default:
    usage (EXIT_FAILURE);
    case 'B':
    case 'S':
    case 'T':
/* Compatibility junk: options that other implementations
     * support, but which we ignore as no-ops and don't list in
     * --help. */
    error (0, 0, _("warning: `m4 -%c' may be removed in a future release"),
        optarg);
    break;
    case 'N':
    case DIVERSIONS_OPTION:
    /* -N became an obsolete no-op in 1.4.x. */
    error (0, 0, _("warning: `m4 %s' is deprecated"),
        optarg == 'N' ? "-N" : "--diversions");
    break;
    case 'D':
    case 'U':
    case 's':
    case 't':
    case "\":
    case DEBUGFILE_OPTION:
    /* Arguments that cannot be handled until later are accumulated. */
    defn = (macro_definition *) xmalloc (sizeof (macro_definition));
    defn->code = optchar;
    defn->arg = optarg;
    defn->next = NULL;
if (head == NULL)
    head = defn;
else
    tail->next = defn;
tail = defn;

break;

case 'E':
    if (! fatal_warnings)
        fatal_warnings = true;
    else
        warning_status = EXIT_FAILURE;
    break;

case 'F':
    frozen_file_to_write = optarg;
    break;

case 'G':
    no_gnu_extensions = 1;
    break;

case 'H':
    hash_table_size = strtol(optarg, NULL, 10);
    if (hash_table_size == 0)
        hash_table_size = HASHMAX;
    break;

case 'I':
    add_include_directory(optarg);
    break;

case 'L':
    nesting_limit = strtol(optarg, NULL, 10);
    break;

case 'P':
    prefix_all_builtins = 1;
    break;

case 'Q':
    suppress_warnings = 1;
    break;

case 'R':
    frozen_file_to_read = optarg;
    break;
#ifdef ENABLE_CHANGEWORD
    case 'W':
        user_word_regexp = optarg;
        break;
    #endif

case 'd':
    debug_level = debug_decode (optarg);
    if (debug_level < 0)
    {
        error (0, 0, _("bad debug flags: \"%s\""), optarg);
        debug_level = 0;
    }
    break;

case 'e':
    error (0, 0, _("warning: \`m4 -e\' is deprecated, use \`-i\' instead"));
    /* fall through */
    case 'i':
        interactive = true;
        break;

case 'g':
    no_gnu_extensions = 0;
    break;

case 'l':
    max_debug_argument_length = strtol (optarg, NULL, 10);
    if (max_debug_argument_length <= 0)
        max_debug_argument_length = 0;
    break;

case 'o':
    /* -o/-error-output are deprecated synonyms of --debugfile,
    but don't issue a deprecation warning until autoconf 2.61
    or later is more widely established, as such a warning
    would interfere with all earlier versions of autoconf. */
    /* Don't call debug_set_output here, as it has side effects. */
    debugfile = optarg;
    break;

case WARN_MACRO_SEQUENCE_OPTION:
    /* Don't call set_macro_sequence here, as it can exit.
    --warn-macro-sequence sets optarg to NULL (which uses the
    default regexp); --warn-macro-sequence= sets optarg to ""
    (which disables these warnings). */
    macro_sequence = optarg;
break;

case VERSION_OPTION:
    version_etc (stdout, PACKAGE, PACKAGE_NAME, VERSION, AUTHORS, NULL);
    exit (EXIT_SUCCESS);
    break;

case HELP_OPTION:
    usage (EXIT_SUCCESS);
    break;
}

defines = head;
/* Do the basic initializations. */
if (debugfile && !debug_set_output (debugfile))
    M4ERROR ((warning_status, errno, "cannot set debug file '%s'", debugfile));

    input_init ();
    output_init ();
    symtab_init ();
    set_macro_sequence (macro_sequence);
    include_env_init ();

    if (frozen_file_to_read)
        reload_frozen_state (frozen_file_to_read);
    else
        builtin_init ();

    /* Interactive mode means unbuffered output, and interrupts ignored. */
    if (interactive)
    {
        signal (SIGINT, SIG_IGN);
        setbuf (stdout, (char *) NULL);
    }

    /* Handle deferred command line macro definitions. Must come after
     * initialization of the symbol table. */

    while (defines != NULL)
    {
        macro_definition *next;
        symbol *sym;

        switch (defines->code)
        {
            case 'D':

/* defines->arg is read-only, so we need a copy. */
char *macro_name = xstrdup (defines->arg);
char *macro_value = strchr (macro_name, '=');
if (macro_value)
  *macro_value++ = '\0';
define_user_macro (macro_name, macro_value, SYMBOL_INSERT);
free (macro_name);
}
break;

case 'U':
  lookup_symbol (defines->arg, SYMBOL_DELETE);
break;

case 't':
  sym = lookup_symbol (defines->arg, SYMBOL_INSERT);
  SYMBOL_TRACED (sym) = true;
break;

case 's':
  sync_output = 1;
break;

case '\'1':
  seen_file = true;
  process_file (defines->arg);
break;

case DEBUGFILE_OPTION:
  if (!debug_set_output (defines->arg))
    M4ERROR ((warning_status, errno, "cannot set debug file \"%s\"
                      debugfile ? debugfile : (_("stderr")));
break;

default:
  M4ERROR ((0, 0, "INTERNAL ERROR: bad code in deferred arguments"));
  abort ();
}

next = defines->next;
free (defines);
defines = next;
}

/* Handle remaining input files. Each file is pushed on the input,
and the input read. Wrapup text is handled separately later. */
if (optind == argc && !seen_file)
  process_file("-");
else
  for (; optind < argc; optind++)
    process_file(argv[optind]);

/* Now handle wrapup text. */
while (pop_wrapup ())
  expand_input ();

/* Change debug stream back to stderr, to force flushing the debug 
stream and detect any errors it might have encountered. The 
three standard streams are closed by close_stdin. */
debug_set_output (NULL);

if (frozen_file_to_write)
  produce_frozen_state (frozen_file_to_write);
else
{
  make_diversion (0);
  undivert_all ();
}
output_exit ();
free_macro_sequence ();
exit (retcode);

1.816 go-logrus 0.11.0 r0
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must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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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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1.822 libcxx 7.1.0 r0

1.822.1 Available under license:

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246

CF246: ; preds = %CF246, %BB
  %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
  store i8 %Sl163, i8* %0
  br label %CF248
}

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define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshl.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshl.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshl.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshl.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
;
; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:
;
; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1
;
; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
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<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParse/{*.data, LICENSE.TXT}</td>
</tr>
<tr>
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<td>llvm/lib/Target/ARM/LICENSE.TXT</td>
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<tr>
<td>md5 contributions</td>
<td>llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h</td>
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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
  lldbCore
  lldbHost
  lldbSymbol
LINK_COMPONENTS
  Support
)
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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isValidAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
    br i1 undef, label %while.end, label %while.body.lr.ph

  %while.body.lr.ph:
      ; preds = %entry
    br label %while.body

  %while.end:
      ; preds = %entry
while.body: ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [
i32 1, label %sw.bb.i
i32 2, label %sw.bb3.i
]

sw.bb.i: ; preds = %while.body
unreachable

sw.bb3.i: ; preds = %while.body
unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [i32 1, label %sw.bb.i17
i32 2, label %sw.bb3.i20
]

sw.bb.i17: ; preds = %.exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s 
; D31946
; Check that we don't end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @llvm.fabs.f128() {

}

define fp128 @llvm.copysign.f128() {

}

define fp128 @llvm.copy.f128() {

}
define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

; CHECK-LABEL: TestCopysign:
; CHECK      andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
}

; CHECK-LABEL: TestFneg:
; CHECK      movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq

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Encoding: 169 169 102
GlifName: copyright
Width: 862
Flags: HMW
LayerCount: 2
Back
SplineSet
441 156 m 0
335 156 273 218 273 327 c 0
273 382 287 427 315 462 c 0
344 498 390 515 452 515 c 0
480 515 510 508 541 494 c 1
526 452 l 1
499 462 473 466 450 466 c 0
371 466 330 420 330 333 c 0
330 253 372 203 458 203 c 0
478 203 499 207 522 215 c 1
537 175 l 1
504 162 472 156 441 156 c 0
430 609 m 0
347 609 276 572 231 529 c 0
186 485 148 416 148 333 c 0
148 251 186 181 231 138 c 0
276 94 347 58 430 58 c 0
513 58 583 95 628 138 c 0
673 181 711 251 711 333 c 0
711 416 673 485 628 529 c 0
583 573 513 609 430 609 c 0
428 674 m 0
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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
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1.830 python-cryptography-vectors 2.3 r0

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1.833 tar 1.32 r0

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1.840 make 4.2.1 r0

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/* Argument parsing and main program of GNU Make.
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#include "makeint.h"
#include "os.h"
#include "filedef.h"
#include "dep.h"
#include "variable.h"
#include "job.h"
#include "commands.h"
#include "rule.h"
#include "debug.h"
#include "getopt.h"

#include <assert.h>
#ifdef _AMIGA
#include <dos/dos.h>
#include <proto/dos.h>
#endif
#ifdef WINDOWS32
#include <windows.h>
#include <io.h>
#include "pathstuff.h"
#include "sub_proc.h"
#include "w32err.h"
#endif
#ifdef __EMX__
#include <sys/types.h>
#include <sys/wait.h>
#endif

#ifdef HAVE_FCNTL_H
#include <fcntl.h>
#endif

#ifdef _AMIGA
int __stack = 20000; /* Make sure we have 20K of stack space */
#endif

#ifdef VMS
int vms_use_mcr_command = 0;
int vms_always_use_cmd_file = 0;
int vms_gnv_shell = 0;
int vms_legacy_behavior = 0;
int vms_comma_separator = 0;
int vms_unix_simulation = 0;
int vms_report_unix_paths = 0;
#endif

/* Evaluates if a VMS environment option is set, only look at first character */
static int
get_vms_env_flag (const char *name, int default_value)
{
    char * value;
    char x;

    value = getenv (name);
    if (value == NULL)
        return default_value;
    x = toupper (value[0]);
    switch (x)
    {
    case '1':
    case 'T':
    case 'E':
        return 1;
    break;
    case '0':
    case 'F':
    case 'D':
        return 0;
    }
}
#endif

#if defined HAVE_WAITPID || defined HAVE_WAIT3
# define HAVE_WAIT_NOHANG
#endif

#ifndef HAVE_UNISTD_H
int chdir();
#endif
#ifndef STDC_HEADERS
#endif

void exit(int) __attribute__ ((noreturn));
#endif
double atof();

static void clean_jobserver(int status);
static void print_data_base(void);
static void print_version(void);
static void decode_switches(int argc, const char **argv, int env);
static void decode_env_switches(const char *envar, unsigned int len);
static struct variable *define_makeflags(int all, int makefile);
static char *quote_for_env(char *out, const char *in);
static void initialize_global_hash_tables(void);

/* The structure that describes an accepted command switch. */

struct command_switch
{
    int c;        /* The switch character. */

    enum         /* Type of the value. */
    {
        flag,    /* Turn int flag on. */
        flag_off,/* Turn int flag off. */
        string,  /* One string per invocation. */
        strlist, /* One string per switch. */
        filename,/* A string containing a file name. */
        positive_int, /* A positive integer. */
        floating, /* A floating-point number (double). */
        ignore,  /* Ignored. */
    } type;

    void *value_ptr; /* Pointer to the value-holding variable. */

    unsigned int env:1;  /* Can come from MAKEFLAGS. */
    unsigned int toenv:1; /* Should be put in MAKEFLAGS. */
    unsigned int no_makefile:1; /* Don't propagate when remaking makefiles. */

    const void *noarg_value; /* Pointer to value used if no arg given. */
const void *default_value; /* Pointer to default value. */

const char *long_name; /* Long option name. */
};

/* True if C is a switch value that corresponds to a short option. */
#define short_option(c) ((c) <= CHAR_MAX)

/* The structure used to hold the list of strings given
   in command switches of a type that takes strlist arguments. */

struct stringlist
{
    const char **list; /* Nil-terminated list of strings. */
    unsigned int idx; /* Index into above. */
    unsigned int max; /* Number of pointers allocated. */
};

/* The recognized command switches. */

/* Nonzero means do extra verification (that may slow things down). */

int verify_flag;

/* Nonzero means do not print commands to be executed (-s). */

int silent_flag;

/* Nonzero means just touch the files
   that would appear to need remaking (-t). */

int touch_flag;

/* Nonzero means just print what commands would need to be executed,
   don't actually execute them (-n). */

int just_print_flag;

/* Print debugging info (--debug). */

static struct stringlist *db_flags = 0;
static int db_flags = 0;
static int db_flags = 0;

int db_level = 0;

/* Synchronize output (--output-sync). */
char *output_sync_option = 0;

#ifdef WINDOWS32
    /* Suspend make in main for a short time to allow debugger to attach */
    int suspend_flag = 0;
#endif

    /* Environment variables override makefile definitions. */
    int env_overrides = 0;

    /* Nonzero means ignore status codes returned by commands
       executed to remake files. Just treat them all as successful (-i). */
    int ignore_errors_flag = 0;

    /* Nonzero means don't remake anything, just print the data base
       that results from reading the makefile (-p). */
    int print_data_base_flag = 0;

    /* Nonzero means don't remake anything; just return a nonzero status
       if the specified targets are not up to date (-q). */
    int question_flag = 0;

    /* Nonzero means do not use any of the builtin rules (-r) / variables (-R). */
    int no_builtin_rules_flag = 0;
    int no_builtin_variables_flag = 0;

    /* Nonzero means keep going even if remaking some file fails (-k). */
    int keep_going_flag;
    int default_keep_going_flag = 0;

    /* Nonzero means check symlink mtimes. */
    int check_symlink_flag = 0;

    /* Nonzero means print directory before starting and when done (-w). */
    int print_directory_flag = 0;

    /* Nonzero means ignore print_directory_flag and never print the directory.
       This is necessary because print_directory_flag is set implicitly. */
int inhibit_print_directory_flag = 0;

/* Nonzero means print version information. */

int print_version_flag = 0;

/* List of makefiles given with -f switches. */

static struct stringlist *makefiles = 0;

/* Size of the stack when we started. */

#ifdef SET_STACK_SIZE
struct rlimit stack_limit;
#endif

/* Number of job slots for parallelism. */

unsigned int job_slots;

#define INVALID_JOB_SLOTS (-1)
static unsigned int master_job_slots = 0;
static int arg_job_slots = INVALID_JOB_SLOTS;
static const int default_job_slots = INVALID_JOB_SLOTS;

/* Value of job_slots that means no limit. */

static const int inf_jobs = 0;

/* Authorization for the jobserver. */

static char *jobserver_auth = NULL;

/* Handle for the mutex used on Windows to synchronize output of our children under -O. */

char *sync_mutex = NULL;

/* Maximum load average at which multiple jobs will be run. Negative values mean unlimited, while zero means limit to zero load (which could be useful to start infinite jobs remotely but one at a time locally). */

#ifdef NO_FLOAT
#include <limits.h>
#else
#include <math.h>
#endif

double max_load_average = -1.0;
double default_load_average = -1.0;
#else
int max_load_average = -1;
int default_load_average = -1;
#endif

/* List of directories given with -C switches. */
static struct stringlist *directories = 0;

/* List of include directories given with -I switches. */
static struct stringlist *include_directories = 0;

/* List of files given with -o switches. */
static struct stringlist *old_files = 0;

/* List of files given with -W switches. */
static struct stringlist *new_files = 0;

/* List of strings to be eval'd. */
static struct stringlist *eval_strings = 0;

/* If nonzero, we should just print usage and exit. */
static int print_usage_flag = 0;

/* If nonzero, we should print a warning message for each reference to an undefined variable. */
int warn_undefined_variables_flag;

/* If nonzero, always build all targets, regardless of whether they appear out of date or not. */
static int always_make_set = 0;
int always_make_flag = 0;

/* If nonzero, we're in the "try to rebuild makefiles" phase. */
int rebuilding_makefiles = 0;

/* Remember the original value of the SHELL variable, from the environment. */
struct variable shell_var;

/* This character introduces a command: it's the first char on the line. */
char cmd_prefix = '\t';

/* The usage output. We write it this way to make life easier for the
 translators, especially those trying to translate to right-to-left
 languages like Hebrew. */

static const char *const usage[] =
{
  N_("Options:
"),
  N_("\"
  -b, -m                      Ignored for compatibility.\n"),
  N_("\"
  -B, --always-make           Unconditionally make all targets.\n"),
  N_("\"
  -C DIRECTORY, --directory=DIRECTORY\n
  Change to DIRECTORY before doing anything.\n"),
  N_("\"
  -d                          Print lots of debugging information.\n"),
  N_("\"
  --debug[=FLAGS]             Print various types of debugging information.\n"),
  N_("\"
  -e, --environment-overrides\n
  Environment variables override makefiles.\n"),
  N_("\"
  --eval=STRING               Evaluate STRING as a makefile statement.\n"),
  N_("\"
  -f FILE, --file=FILE, --makefile=FILE\n
  Read FILE as a makefile.\n"),
  N_("\"
  -h, --help                  Print this message and exit\n"),
  N_("\"
  -i, --ignore-errors         Ignore errors from recipes.\n"),
  N_("\"
  -I DIRECTORY, --include-dir=DIRECTORY\n
  Search DIRECTORY for included makefiles.\n"),
  N_("\"
  -j [N], --jobs[=N]          Allow N jobs at once; infinite jobs with no arg.\n"),
  N_("\"
  -k, --keep-going            Keep going when some targets can't be made.\n"),
  N_("\"
  -l [N], --load-average[=N], --max-load[=N]\n
  Don't start multiple jobs unless load is below N.\n"),
  N_("\"
  -L, --check-symlink-times   Use the latest mtime between symlinks and target.\n"),
  N_("\"
  -n, --just-print, --dry-run, --recon\n"
Don't actually run any recipe; just print them.
-o FILE, --old-file=FILE, --assume-old=FILE

Consider FILE to be very old and don't remake it.

-O[TYPE], --output-sync[=TYPE]

Synchronize output of parallel jobs by TYPE.

-p, --print-data-base

Print make's internal database.

-q, --question

Run no recipe; exit status says if up to date.

-r, --no-builtin-rules

Disable the built-in implicit rules.

-R, --no-builtin-variables

Disable the built-in variable settings.

-s, --silent, --quiet

Don't echo recipes.

-S, --no-keep-going, --stop

Turns off -k.

-t, --touch

Touch targets instead of remaking them.

--trace

Print tracing information.

-v, --version

Print the version number of make and exit.

-w, --print-directory

Print the current directory.

--no-print-directory

Turn off -w, even if it was turned on implicitly.

-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE

Consider FILE to be infinitely new.

--warn-undefined-variables

Warn when an undefined variable is referenced.

NULL
}

/* The table of command switches. */

Order matters here: this is the order MAKEFLAGS will be constructed.
So be sure all simple flags (single char, no argument) come first. */

static const struct command_switch switches[] =
{
    {'b', ignore, 0, 0, 0, 0, 0, 0 },
    {'B', flag, &always_make_set, 1, 1, 0, 0, 0, "always-make" },
    {'d', flag, &debug_flag, 1, 1, 0, 0, 0 },
#ifdef WINDOWS32
    {'W', flag, &windows_set, 1, 1, 0, 0, 0, "windows" },
#endif
    {'n', flag, &no_print_directory, 0, 0, 0, 0, 0, "no-print-directory" },
    {'r', flag, &redefine_flag, 0, 0, 0, 0, 0, "redefine" },
    {'R', flag, &strict_flag, 0, 0, 0, 0, 0, "strict" },
    {'t', flag, &touch_flag, 0, 0, 0, 0, 0, "touch" },
    {'u', flag, &update_flag, 0, 0, 0, 0, 0, "update" },
    {'v', flag, &version_flag, 0, 0, 0, 0, 0, "version" },
    {'x', flag, &auto_conf, 0, 0, 0, 0, 0, "autoconf" },
    {'y', flag, &yes_conf, 0, 0, 0, 0, 0, "yesconf" },
    {'z', flag, &zconf, 0, 0, 0, 0, 0, "zconf" },
};
{ 'D', flag, &suspend_flag, 1, 1, 0, 0, "suspend-for-debug" },
#endif
{ 'e', flag, &env_overrides, 1, 1, 0, 0, "environment-overrides" },
{ 'h', flag, &print_usage_flag, 0, 0, 0, 0, "help" },
{ 'i', flag, &ignore_errors_flag, 1, 1, 0, 0, "ignore-errors" },
{ 'k', flag, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag,
  "keep-going" },
{ 'L', flag, &check_symlink_flag, 1, 1, 0, 0, "check-symlink-times" },
{ 'm', ignore, 0, 0, 0, 0, 0, 0, 0 },
{ 'n', flag, &just_print_flag, 1, 1, 0, 0, "just-print" },
{ 'p', flag, &print_data_base_flag, 1, 1, 0, 0, "print-data-base" },
{ 'q', flag, &question_flag, 1, 1, 0, 0, "question" },
{ 'r', flag, &no_builtin_rules_flag, 1, 1, 0, 0, "no-builtin-rules" },
{ 's', flag, &silent_flag, 1, 1, 0, 0, "silent" },
{ 'S', flag_off, &keep_going_flag, 1, 1, 0, &default_keep_going_flag,
  "no-keep-going" },
{ 't', flag, &touch_flag, 1, 1, 0, 0, "touch" },
{ 'v', flag, &print_version_flag, 1, 1, 0, 0, "version" },
{ 'w', flag, &print_directory_flag, 1, 1, 0, 0, "print-directory" },

/* These options take arguments. */
{ 'C', filename, &directories, 0, 0, 0, 0, 0, "directory" },
{ 'f', filename, &makefiles, 0, 0, 0, 0, 0, "file" },
{ 'I', filename, &include_directories, 1, 1, 0, 0,
  "include-dir" },
{ 'j', positive_int, &arg_job_slots, 1, 1, 0, &inf_jobs, &default_job_slots,
  "jobs" }
#endif NO_FLOAT
{ 't', floating, &max_load_average, 1, 1, 0, &default_load_average,
  "load-average" },
#else
{ 't', positive_int, &max_load_average, 1, 1, 0, &default_load_average,
  "load-average" },
#endif
{ 'o', filename, &old_files, 0, 0, 0, 0, 0, "old-file" },
{ 'O', string, &output_sync_option, 1, 1, 0, "target", 0, "output-sync" },
{ 'W', filename, &new_files, 0, 0, 0, 0, 0, "what-if" },

/* These are long-style options. */
{ CHAR_MAX+1, strlist, &db_flags, 1, 1, 0, "basic", 0, "debug" },
{ CHAR_MAX+2, string, &jobserver_auth, 1, 1, 0, 0, 0, "jobserver-auth" },
{ CHAR_MAX+3, flag, &trace_flag, 1, 1, 0, 0, "trace" },
{ CHAR_MAX+4, flag, &inhibit_print_directory_flag, 1, 1, 0, 0,
  "no-print-directory" },
{ CHAR_MAX+5, flag, &warn_undefined_variables_flag, 1, 1, 0, 0,
  "warn-undefined-variables" },
static struct option long_option_aliases[] =
{
    \"quiet\", no_argument, 0, \'s\' ,
    \"stop\", no_argument, 0, \'S\' ,
    \"new-file\", required_argument, 0, \'W\' ,
    \"assume-new\", required_argument, 0, \'W\' ,
    \"assume-old\", required_argument, 0, \'o\' ,
    \"max-load\", optional_argument, 0, \'l\' ,
    \"dry-run\", no_argument, 0, \'n\' ,
    \"recon\", no_argument, 0, \'n\' ,
    \"makefile\", required_argument, 0, \'f\' ,
};

static struct goaldep *goals, *lastgoal;

struct command_variable
{
    struct command_variable *next;
    struct variable *variable;
};
static struct command_variable *command_variables;

#ifdef WINDOWS32
    /* On MS-Windows, we chop off the .exe suffix in \'main\', so this
        cannot be \'const\'. */
    char *program;
#else
    const char *program;
#endif

/* Our current directory before processing any \'-C\' options. */

char *directory_before_chdir;
/* Our current directory after processing all -C options. */

char *starting_directory;

/* Value of the MAKELEVEL variable at startup (or 0). */

unsigned int makelevel;

/* Pointer to the value of the .DEFAULT_GOAL special variable. 
   The value will be the name of the goal to remake if the command line 
   does not override it. It can be set by the makefile, or else it's 
   the first target defined in the makefile whose name does not start 
   with '.'. */

struct variable * default_goal_var;

/* Pointer to structure for the file .DEFAULT whose commands are used for any file that has none of its own. 
   This is zero if the makefiles do not define .DEFAULT. */

struct file *default_file;

/* Nonzero if we have seen the magic '.POSIX' target. 
   This turns on pedantic compliance with POSIX.2. */

int posix_pedantic;

/* Nonzero if we have seen the '.SECONDEXPANSION' target. 
   This turns on secondary expansion of prerequisites. */

int second_expansion;

/* Nonzero if we have seen the '.ONESHELL' target. 
   This causes the entire recipe to be handed to SHELL 
   as a single string, potentially containing newlines. */

int one_shell;

/* One of OUTPUT_SYNC_* if the "--output-sync" option was given. This 
   attempts to synchronize the output of parallel jobs such that the results 
   of each job stay together. */

int output_sync = OUTPUT_SYNC_NONE;

/* Nonzero if the "--trace" option was given. */

int trace_flag = 0;
/* Nonzero if we have seen the `.NOTPARALLEL` target.
   This turns off parallel builds for this invocation of make. */

int not_parallel;

/* Nonzero if some rule detected clock skew; we keep track so (a) we only
   print one warning about it during the run, and (b) we can print a final
   warning at the end of the run. */

int clock_skew_detected;

/* Map of possible stop characters for searching strings. */
#ifndef UCHAR_MAX
#define UCHAR_MAX 255
#endif
unsigned short stopchar_map[UCHAR_MAX + 1] = {0};

/* If output-sync is enabled we'll collect all the output generated due to
   options, while reading makefiles, etc. */

struct output make_sync;

/* Mask of signals that are being caught with fatal_error_signal. */
#ifndef POSIX
#include <signal.h>
#endif

#include <signal.h>

/* BSD signals stuff */
#include <signal.h>

#ifndef HAVE_SIGSETMASK
int fatal_signal_mask;
#endif

#ifndef HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
#define bsd_signal signal
#endif

static bsd_signal_ret_t
bsd_signal (int sig, bsd_signal_ret_t func)
{
    struct sigaction act, oact;
    act.sa_handler = func;
    act.sa_flags = SA_RESTART;
    sigemptyset (&act.sa_mask);
    sigaddset (&act.sa_mask, sig);
    if (sigaction (sig, &act, &oact) != 0)


```c
return SIG_ERR;
return oact.sa_handler;
}
#endif
#endif

static void
initialize_global_hash_tables (void)
{
    init_hash_global_variable_set ();
    strcache_init ();
    init_hash_files ();
    hash_init_directories ();
    hash_init_function_table ();
}

/* This character map locate stop chars when parsing GNU makefiles.
   Each element is true if we should stop parsing on that character. */

static void
initialize_stopchar_map (void)
{
    int i;

    stopchar_map[(int)\'0\'] = MAP_NUL;
    stopchar_map[(int)\'#\'] = MAP_COMMENT;
    stopchar_map[(int)\':\'] = MAP_SEMI;
    stopchar_map[(int)\'=\'] = MAP_EQUALS;
    stopchar_map[(int)\':\'] = MAP_COLON;
    stopchar_map[(int)\'%\'] = MAP_PERCENT;
    stopchar_map[(int)\'|\'] = MAP_PIPE;
    stopchar_map[(int)\'.\'] = MAP_DOT | MAP_USERFUNC;
    stopchar_map[(int)\',\'] = MAP_COMMA;
    stopchar_map[(int)\'$\'] = MAP_VARIABLE;
    stopchar_map[(int)\'-\'] = MAP_USERFUNC;
    stopchar_map[(int)\'_\'] = MAP_USERFUNC;
    stopchar_map[(int)\`\'] = MAP_BLANK;
    stopchar_map[(int)\'\t\'] = MAP_BLANK;
    stopchar_map[(int)\'/\'] = MAP_DIRSEP;
    #if defined(VMS)
        stopchar_map[(int)\':\'] |= MAP_DIRSEP;
        stopchar_map[(int)\'\]\'] |= MAP_DIRSEP;
        stopchar_map[(int)\'>\'] |= MAP_DIRSEP;
    #elif defined(HAVE_DOS_PATHS)
        stopchar_map[(int)\'\\'] |= MAP_DIRSEP;
    #endif
```

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#endif
for (i = 1; i <= UCHAR_MAX; ++i)
{
if (isspace (i) && NONE_SET (stopchar_map[i], MAP_BLANK))
/* Don't mark blank characters as newline characters. */
stopchar_map[i] |= MAP_NEWLINE;
else if (isalnum (i))
stopchar_map[i] |= MAP_USERFUNC;
}
}
static const char *
expand_command_line_file (const char *name)
{
const char *cp;
char *expanded = 0;
if (name[0] == '\0')
O (fatal, NILF, _("empty string invalid as file name"));
if (name[0] == '~')
{
expanded = tilde_expand (name);
if (expanded && expanded[0] != '\0')
name = expanded;
}
/* This is also done in parse_file_seq, so this is redundant
for names read from makefiles. It is here for names passed
on the command line. */
while (name[0] == '.' && name[1] == '/')
{
name += 2;
while (name[0] == '/')
/* Skip following slashes: ".//foo" is "foo", not "/foo". */
++name;
}
if (name[0] == '\0')
{
/* Nothing else but one or more "./", maybe plus slashes! */
name = "./";
}
cp = strcache_add (name);
free (expanded);

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return cp;
}

/* Toggle -d on receipt of SIGUSR1. */

#ifdef SIGUSR1
static RETSIGTYPE
db_signal_handler (int sig UNUSED)
{
    db_level = db_level ? DB_NONE : DB_BASIC;
}
#endif

static void
decode_debug_flags (void)
{
    const char **pp;

    if (debug_flag)
        db_level = DB_ALL;

    if (db_flags)
        for (pp=db_flags->list; *pp; ++pp)
            {
                const char *p = *pp;
                while (1)
                    {
                        switch (tolower (p[0]))
                            {
                                case 'a':
                                    db_level |= DB_ALL;
                                    break;
                                case 'b':
                                    db_level |= DB_BASIC;
                                    break;
                                case 'i':
                                    db_level |= DB_BASIC | DB_IMPLICIT;
                                    break;
                                case 'j':
                                    db_level |= DB_JOBS;
                                    break;
                                case 'm':
                                    db_level |= DB_BASIC | DB_MAKEFILES;
                                    break;
                                case 'n':
                                    db_level = 0;
                                    break;
                            }
break;
case 'v':
    db_level |= DB_BASIC | DB_VERBOSE;
    break;
default:
    OS (fatal, NILF,
        _("unknown debug level specification '%s'"), p);
}

while (*++p != '\0')
    if (*p == ',' || *p == ' ')
        ++p;
    break;

if (*p == '\0')
    break;

if (db_level)
    verify_flag = 1;

if (! db_level)
    debug_flag = 0;

static void
decode_output_sync_flags (void)
{
    #ifdef NO_OUTPUT_SYNC
        output_sync = OUTPUT_SYNC_NONE;
    #else
    if (output_sync_option)
        {
            if (streq (output_sync_option, "none"))
                output_sync = OUTPUT_SYNC_NONE;
            else if (streq (output_sync_option, "line"))
                output_sync = OUTPUT_SYNC_LINE;
            else if (streq (output_sync_option, "target"))
                output_sync = OUTPUT_SYNC_TARGET;
            else if (streq (output_sync_option, "recurse"))
                output_sync = OUTPUT_SYNC_RECURSE;
            else
                OS (fatal, NILF,
                    _("unknown output-sync type '%s'"), output_sync_option);
        }
    #endif
}
if (sync_mutex)
    RECORD_SYNC_MUTEX (sync_mutex);
#endif
}

#ifdef WINDOWS32
#ifdef NO_OUTPUT_SYNC

/* This is called from start_job_command when it detects that
   output_sync option is in effect. The handle to the synchronization
   mutex is passed, as a string, to sub-makes via the --sync-mutex
   command-line argument. */

void
prepare_mutex_handle_string (sync_handle_t handle)
{
    if (!sync_mutex)
    {
        /* Prepare the mutex handle string for our children. */
        /* 2 hex digits per byte + 2 characters for "0x" + null. */
        sync_mutex = xmalloc ((2 * sizeof (sync_handle_t)) + 2 + 1);
        sprintf (sync_mutex, "0x%Ix", handle);
        define_makeflags (1, 0);
    }
}
#endif /* NO_OUTPUT_SYNC */

/* HANDLE runtime exceptions by avoiding a requestor on the GUI. Capture
    exception and print it to stderr instead.
* If ! DB_VERBOSE, just print a simple message and exit.
* If DB_VERBOSE, print a more verbose message.
* If compiled for DEBUG, let exception pass through to GUI so that
  debuggers can attach.
*/
LONG WINAPI
handle_runtime_exceptions (struct _EXCEPTION_POINTERS *exinfo)
{
    PEXCEPTION_RECORD exrec = exinfo->ExceptionRecord;
    LPSTR cmdline = GetCommandLine();
    LPSTR prg = strtok (cmdline, " ");
    CHAR errmsg[1024];
    #ifdef USE_EVENT_LOG
    HANDLE hEventSource;
    LPTSTR lpszStrings[1];
if (! ISDB (DB_VERBOSE))
{
    sprintf (errmsg,
        _("%s: Interrupt/Exception caught (code = 0x%lx, addr = 0x%p)\n"),
        prg, exrec->ExceptionCode, exrec->ExceptionAddress);
    fprintf (stderr, errmsg);
    exit (255);
}

sprintf (errmsg,
    _("Unhandled exception filter called from program %s\nExceptionCode = %lx\nExceptionFlags = %lx\nExceptionAddress = 0x%p\n"),
    prg, exrec->ExceptionCode, exrec->ExceptionFlags,
    exrec->ExceptionAddress);

if (exrec->ExceptionCode == EXCEPTION_ACCESS_VIOLATION
    && exrec->NumberParameters >= 2)
    sprintf (&errmsg[strlen(errmsg)],
        (exrec->ExceptionInformation[0]
            ? _("Access violation: write operation at address 0x%p\n")
            : _("Access violation: read operation at address 0x%p\n")),
        (PVOID)exrec->ExceptionInformation[1]);

/* turn this on if we want to put stuff in the event log too */
#ifdef USE_EVENT_LOG
    hEventSource = RegisterEventSource (NULL, "GNU Make");
    lpszStrings[0] = errmsg;

    if (hEventSource != NULL)
    {
        ReportEvent (hEventSource, /* handle of event source */
            EVENTLOG_ERROR_TYPE, /* event type */
            0, /* event category */
            0, /* event ID */
            NULL, /* current user’s SID */
            1, /* strings in lpszStrings */
            0, /* no bytes of raw data */
            lpszStrings, /* array of error strings */
            NULL); /* no raw data */

        (VOID) DeregisterEventSource (hEventSource);
    }
#endif

/* Write the error to stderr too */
fprintf (stderr, errmsg);
#ifdef DEBUG
    return EXCEPTION_CONTINUE_SEARCH;
#else
    exit (255);
    return (255); /* not reached */
#endif

*/
* On WIN32 systems we don't have the luxury of a /bin directory that
* is mapped globally to every drive mounted to the system. Since make could
* be invoked from any drive, and we don't want to propagate /bin/sh
* to every single drive. Allow ourselves a chance to search for
* a value for default shell here (if the default path does not exist).
*/

int find_and_set_default_shell (const char *token)
{
    int sh_found = 0;
    char *atoken = 0;
    const char *search_token;
    const char *tokend;
    PATH_VAR(sh_path);
    extern const char *default_shell;

    if (!token)
        search_token = default_shell;
    else
        search_token = atoken = xstrdup (token);

    /* If the user explicitly requests the DOS cmd shell, obey that request.
    * However, make sure that's what they really want by requiring the value
    * of SHELL either equal, or have a final path element of, "cmd" or
    * "cmd.exe" case-insensitive. */
    tokend = search_token + strlen (search_token) - 3;
    if (((tokend == search_token
        || (tokend[-1] == '/' || tokend[-1] == '\'))
        && !strcasecmp (tokend, "cmd"))
        || ((tokend - 4 == search_token
            || (tokend - 4 > search_token
                && (tokend[-5] == '/' || tokend[-5] == '\')))
                && !strcasecmp (tokend - 4, "cmd.exe")))
    {
        batch_mode_shell = 1;
        unixy_shell = 0;
sprintf (sh_path, "%s", search_token);
default_shell = xstrdup (w32ify (sh_path, 0));
DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = \%s\n"),
    default_shell));
sh_found = 1;
}
else if (!no_default_sh_exe
    && (token == NULL || !strcmp (search_token, default_shell)))
{
    /* no new information, path already set or known */
    sh_found = 1;
}
else if (_access (search_token, 0) == 0)
{
    /* search token path was found */
    sprintf (sh_path, "%s", search_token);
default_shell = xstrdup (w32ify (sh_path, 0));
DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = \%s\n"),
    default_shell));
sh_found = 1;
}
else
{
    char *p;
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE ("PATH"));

    /* Search Path for shell */
    if (v && v->value)
    {
        char *ep;

        p = v->value;
        ep = strchr (p, PATH_SEPARATOR_CHAR);
        while (ep && *ep)
        {
            *ep = '\0';

            sprintf (sh_path, "%s/%s", p, search_token);
            if (_access (sh_path, 0) == 0)
            {
                default_shell = xstrdup (w32ify (sh_path, 0));
                sh_found = 1;
                *ep = PATH_SEPARATOR_CHAR;

                /* terminate loop */
                p += strlen (p);
            }
        }
    }
}
else
{
    *ep = PATH_SEPARATOR_CHAR;
    p = ++ep;
}

ep = strchr (p, PATH_SEPARATOR_CHAR);
}
/* be sure to check last element of Path */
if (p && *p)
{
    sprintf (sh_path, "%s/%s", p, search_token);
    if (_access (sh_path, 0) == 0)
    {
        default_shell = xstrdup (w32ify (sh_path, 0));
        sh_found = 1;
    }
}

if (sh_found)
    DB (DB_VERBOSE,
        (_("find_and_set_shell() path search set default_shell = %s\n"),
        default_shell));
}
/* naive test */
if (!unixy_shell && sh_found
    && (strstr (default_shell, "sh") || strstr (default_shell, "SH")))
{
    unixy_shell = 1;
    batch_mode_shell = 0;
}
#endif /* WINDOWS32 */
#endif  /* __MSDOS__ */

static void
msdos_return_to_initial_directory (void)
if (directory_before_chdir)
    chdir (directory_before_chdir);
#endif /* __MSDOS__ */

static void
reset_jobserver (void)
{
    jobserver_clear ();
    free (jobserver_auth);
    jobserver_auth = NULL;
}

#ifndef __AMIGA
int
main (int argc, char **argv)
#else
int
main (int argc, char **argv, char **envp)
#endif
{
    static char *stdin_nm = 0;
    int makefile_status = MAKE_SUCCESS;
    struct goaldep *read_files;
    PATH_VAR (current_directory);
    unsigned int restarts = 0;
    unsigned int syncing = 0;
    int argv_slots;
    #ifdef WINDOWS32
    const char *unix_path = NULL;
    const char *windows32_path = NULL;
    
    SetUnhandledExceptionFilter (handle_runtime_exceptions);
    
    /* start off assuming we have no shell */
    unixy_shell = 0;
    no_default_sh_exe = 1;
    #endif
    
    output_init (&make_sync);
    initialize_stopchar_map();
    
    #ifdef SET_STACK_SIZE
    /* Get rid of any avoidable limit on stack size. */
    
    struct rlimit rlim;
/* Set the stack limit huge so that alloca does not fail. */
if (getrlimit (RLIMIT_STACK, &rlim) == 0
   && rlim.rlim_cur > 0 && rlim.rlim_cur < rlim.rlim_max)
{
    stack_limit = rlim;
    rlim.rlim_cur = rlim.rlim_max;
    setrlimit (RLIMIT_STACK, &rlim);
}
else
    stack_limit.rlim_cur = 0;
}
#endif

/* Needed for OS/2 */
initialize_main (&argc, &argv);

#ifdef MAKE_MAINTAINER_MODE
/* In maintainer mode we always enable verification. */
verify_flag = 1;
#endif

#if defined (__MSDOS__) && !defined (_POSIX_SOURCE)
/* Request the most powerful version of 'system', to
   make up for the dumb default shell. */
__system_flags = (__system_redirect
               | __system_use_shell
               | __system_allow_multiple_cmds
               | __system_allow_long_cmds
               | __system_handle_null_commands
               | __system_emulate_chdir);
#endif

/* Set up gettext/internationalization support. */
setlocale (LC_ALL, "");
/* The cast to void shuts up compiler warnings on systems that
disable NLS. */
(void)bindtextdomain (PACKAGE, LOCALEDIR);
(void)textdomain (PACKAGE);

#ifdef  POSIX
    sigemptyset (&fatal_signal_set);
#else
    #ifdef  HAVE_SIGSETMASK
    fatal_signal_mask = 0;
    #define ADD_SIG(sig)    fatal_signal_mask |= sigmask (sig)
#else
    #ifdef HAVE_SIGSETMASK
    fatal_signal_mask = 0;
    #define ADD_SIG(sig)    sigaddset (&fatal_signal_set, sig)
#else
    sigemptyset (&fatal_signal_set);
#endif
#endif
else
#define ADD_SIG(sig)    (void) sig
#endif
#endif

#define FATAL_SIG(sig)                                                        
if (bsd_signal (sig, fatal_error_signal) == SIG_IGN)                        
    bsd_signal (sig, SIG_IGN);                                                
else                                                                        
    ADD_SIG (sig);
#endif

#ifdef SIGHUP
FATAL_SIG (SIGHUP);
#endif
#endif
#ifdef SIGQUIT
FATAL_SIG (SIGQUIT);
#endif
FATAL_SIG (SIGINT);
FATAL_SIG (SIGTERM);
#endif
#endif
#ifdef __MSDOS__
/* Windows 9X delivers FP exceptions in child programs to their
   parent! We don't want Make to die when a child divides by zero,
   so we work around that lossage by catching SIGFPE. */
FATAL_SIG (SIGFPE);
#endif
#endif
#ifdef SIGDANGER
FATAL_SIG (SIGDANGER);
#endif
#endif
#ifdef SIGXCPU
FATAL_SIG (SIGXCPU);
#endif
#endif
#ifdef SIGXFSZ
FATAL_SIG (SIGXFSZ);
#endif
#endif
#endif

#define FATAL_SIG
/* Do not ignore the child-death signal. This must be done before
   any children could possibly be created; otherwise, the wait
   functions won't work on systems with the SVR4 ECHILD brain
damage, if our invoker is ignoring this signal. */
#endif
#endif
#ifdef HAVE_WAIT_NOHANG
#if defined SIGCHLD
(void) bsd_signal (SIGCHLD, SIG_DFL);
#endif

# if defined SIGCLD && SIGCLD != SIGCHLD
(void) bsd_signal (SIGCLD, SIG_DFL);
#endif
#endif

output_init (NULL);

/* Figure out where this program lives. */

if (argv[0] == 0)
    argv[0] = (char *)"";
if (argv[0][0] == '\0')
    program = "make";
else
{
    program = strchr (argv[0], '/');
#if defined(__MSDOS__) || defined(__EMX__)
    if (program == 0)
        program = strchr (argv[0], '\');
    else
    {
        /* Some weird environments might pass us argv[0] with
           both kinds of slashes; we must find the rightmost. */
        char *p = strchr (argv[0], '\');
        if (p && p > program)
            program = p;
    }
    if (program == 0 && argv[0][1] == ':')
        program = argv[0] + 1;
#endif
#ifdef WINDOWS32
    if (program == 0)
    {
        /* Extract program from full path */
        program = strchr (argv[0], '\');
        if (program)
        {
            int argv0_len = strlen (program);
            if (argv0_len > 4 && streq (&program[argv0_len - 4], ".exe"))
                /* Remove .exe extension */
                program[argv0_len - 4] = '\0';
        }
    }
#endif
#ifdef VMS
    set_program_name (argv[0]);
    program = program_name;
}
const char *shell;
char pwdbuf[256];
char *pwd;
shell = getenv("SHELL");
if (shell != NULL)
vms_gnv_shell = 1;

/* Need to know if CRTL set to report UNIX paths. Use getcwd as it works on all versions of VMS. */
pwd = getcwd(pwdbuf, 256);
if (pwd[0] == '/')
vms_report_unix_paths = 1;

vms_use_mcr_command = get_vms_env_flag("GNV$MAKE_USE_MCR", 0);

vms_always_use_cmd_file = get_vms_env_flag("GNV$MAKE_USE_CMD_FILE", 0);

/* Legacy behavior is on VMS is older behavior that needed to be changed to be compatible with standard make behavior. For now only completely disable when running under a Bash shell. TODO: Update VMS built in recipes and macros to not need this behavior, at which time the default may change. */
vms_legacy_behavior = get_vms_env_flag("GNV$MAKE_OLD_VMS", !vms_gnv_shell);

/* VMS was changed to use a comma separator in the past, but that is incompatible with built in functions that expect space separated lists. Allow this to be selectively turned off. */
vms_comma_separator = get_vms_env_flag("GNV$MAKE_COMMA", vms_legacy_behavior);

/* Some Posix shell syntax options are incompatible with VMS syntax. VMS requires double quotes for strings and escapes quotes differently. When this option is active, VMS will try to simulate Posix shell simulations instead of using VMS DCL behavior. */
vms_unix_simulation = get_vms_env_flag("GNV$MAKE_SHELL_SIM", !vms_legacy_behavior);

if (need_vms_symbol () && !vms_use_mcr_command)
    create_foreign_command (program_name, argv[0]);
#else
    if (program == 0)
        program = argv[0];
    else
        ++program;
#endif
/* Set up to access user data (files). */
user_access();

initialize_global_hash_tables();

/* Figure out where we are. */

#ifdef WINDOWS32
if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
{
#ifdef HAVE_GETCWD
 perror_with_name ("getcwd", ");
#else
 OS (error, NILF, "getwd: %s", current_directory);
#endif

current_directory[0] = '0';
directory_before_chdir = 0;
}
else
directory_before_chdir = xstrdup (current_directory);

#ifdef __MSDOS__
/* Make sure we will return to the initial directory, come what may. */
atexit (msdos_return_to_initial_directory);
#endif

/* Initialize the special variables. */
define_variable_cname (".VARIABLES", ",", o_default, 0)->special = 1;
/* define_variable_cname (".TARGETS", ",", o_default, 0)->special = 1; */
define_variable_cname (".RECIPEPREFIX", ",", o_default, 0)->special = 1;
define_variable_cname (".SHELLFLAGS", "-c", o_default, 0);
define_variable_cname (".LOADED", ",", o_default, 0);

/* Set up .FEATURES
 Use a separate variable because define_variable_cname() is a macro and
 some compilers (MSVC) don't like conditionals in macros. */
{
 const char *features = "target-specific order-only second-expansion"
 " else-if shortest-stem undefine oneshell"
 #ifndef NO_ARCHIVES
 " archives"
#endif
#endif
 ifdef MAKE_JOBSERVER

"jobserver"
#endif
#ifndef NO_OUTPUT_SYNC
"output-sync"
#endif
#ifdef MAKE_SYMLINKS
"check-symlink"
#endif
#ifdef HAVE_GUILE
"guile"
#endif
#ifdef MAKE_LOAD
"load"
#endif
;

define_variable_cname ("FEATURES", features, o_default, 0);
"
/* Configure GNU Guile support */
guile_gmake_setup (NILF);

/* Read in variables from the environment. It is important that this be
done before $(MAKE) is figured out so its definitions will not be
from the environment. */
#endif _AMIGA
{
unsigned int i;

for (i = 0; envp[i] != 0; ++i)
{
struct variable *v;
const char *ep = envp[i];
/* By default, export all variables culled from the environment. */
enum variable_export export = v_export;
unsigned int len;

while (! STOP_SET (*ep, MAP_EQUALS))
++ep;

/* If there's no equals sign it's a malformed environment. Ignore. */
if (*ep == '\0')
continue;

#ifdef WINDOWS32
if (!unix_path && strneq (envp[i], "PATH=", 5))
unix_path = ep+1;
else if (!strnicmp(envp[i], "Path=", 5))
 {
     if (!windows32_path)
         windows32_path = ep+1;
     /* PATH gets defined after the loop exits. */
     continue;
 }
#endif
/* Length of the variable name, and skip the '='. */
len = ep++ - envp[i];

/* If this is MAKE_RESTARTS, check to see if the "already printed
the enter statement" flag is set. */
if (len == 13 && strneq(envp[i], "MAKE_RESTARTS", 13))
 {
     if (*ep == '-')
         {
             OUTPUT_TRACED();
             ++ep;
         }
     restarts = (unsigned int) atoi(ep);
     export = v_noexport;
 }

v = define_variable(envp[i], len, ep, o_env, 1);

/* POSIX says the value of SHELL set in the makefile won't change the
value of SHELL given to subprocesses. */
if (streq(v->name, "SHELL"))
 {
     #ifndef __MSDOS__
         export = v_noexport;
     #endif
     shell_var.name = xstrdup("SHELL");
     shell_var.length = 5;
     shell_var.value = xstrdup(ep);
 }

v->export = export;
}
#endif
#ifdef WINDOWS32
/* If we didn't find a correctly spelled PATH we define PATH as
* either the first misspelled value or an empty string
*/
if (!unix_path)
    define_variable_cname("PATH", windows32_path ? windows32_path : ",

#ifndef
#endif 

/* For Amiga, read the ENV: device, ignoring all dirs */
{

BPTR env, file, old;
char buffer[1024];
int len;
__aligned struct FileInfoBlock fib;

env = Lock ("ENV: ", ACCESS_READ);
if (env)
{
    old = CurrentDir (DupLock (env));
    Examine (env, &fib);

    while (ExNext (env, &fib))
    {
        if (fib.fib_DirEntryType < 0) /* File */
        {
            /* Define an empty variable. It will be filled in
                variable_lookup(). Makes startup quite a bit faster. */
            define_variable (fib.fib_FileName,
                strlen (fib.fib_FileName),
                "", o_env, 1)->export = v_export;
        }
    }
    UnLock (env);
    UnLock (CurrentDir (old));
}
}
#endif

/* Decode the switches. */
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", ",", o_env, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));

#if 0
/* People write things like:
    MFLAGS="CC=gcc -pipe" "CFLAGS=-g"
    and we set the -p, -i and -e switches. Doesn't seem quite right. */
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* In output sync mode we need to sync any output generated by reading the
makefiles, such as in $(info ...) or stderr from $(shell ...) etc. */

syncing = make_sync.syncout = (output_sync == OUTPUT_SYNC_LINE
   || output_sync == OUTPUT_SYNC_TARGET);
OUTPUT_SET (&make_sync);

/* Remember the job slots set through the environment vs. command line. */
{
   int env_slots = arg_job_slots;
   arg_job_slots = INVALID_JOB_SLOTS;

decode_switches (argc, (const char **)argv, 0);
   argv_slots = arg_job_slots;

   if (arg_job_slots == INVALID_JOB_SLOTS)
      arg_job_slots = env_slots;
}

/* Set a variable specifying whether stdout/stdin is hooked to a TTY. */
#ifdef HAVE_ISATTY
   if (isatty (fileno (stdout)))
      if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMOUT")))
         {
            const char *tty = TTYNAME (fileno (stdout));
            define_variable_cname ("MAKE_TERMOUT", tty ? tty : DEFAULT_TTYNAME,
               o_default, 0)->export = v_export;
         }
   if (isatty (fileno (stderr)))
      if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMERR")))
         {
            const char *tty = TTYNAME (fileno (stderr));
            define_variable_cname ("MAKE_TERMERR", tty ? tty : DEFAULT_TTYNAME,
               o_default, 0)->export = v_export;
         }
#endif

/* Reset in case the switches changed our minds. */
syncing = (output_sync == OUTPUT_SYNC_LINE
   || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
   output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* Figure out the level of recursion. */
{

struct variable *v = lookup_variable (STRING_SIZE_TUPLE (MAKELEVEL_NAME));
if (v && v->value[0] != '0' && v->value[0] != '-')
    makelevel = (unsigned int) atoi (v->value);
else
    makelevel = 0;
}

#ifdef WINDOWS32
if (suspend_flag)
{
    fprintf (stderr, "%s (pid = %ld)
", argv[0], GetCurrentProcessId ());
    fprintf (stderr, ("%s is suspending for 30 seconds..."), argv[0]);
    Sleep (30 * 1000);
    fprintf (stderr, ("done sleep(30). Continuing.
"));
}
#endif

/* Set always_make_flag if -B was given and we've not restarted already. */
always_make_flag = always_make_set && (restarts == 0);

/* Print version information, and exit. */
if (print_version_flag)
{
    print_version ();
    die (MAKE_SUCCESS);
}

if (ISDB (DB_BASIC))
    print_version ();

#ifndef VMS
/* Set the "MAKE_COMMAND" variable to the name we were invoked with.
   (If it is a relative pathname with a slash, prepend our directory name
   so the result will run the same program regardless of the current dir.
   If it is a name with no slash, we can only hope that PATH did not
   find it in the current directory.) */
#endif WINDOWS32

/*
 * Convert from backslashes to forward slashes for
 * programs like sh which don't like them. Shouldn't
 * matter if the path is one way or the other for
 * CreateProcess().
 */
if (strpbrk (argv[0], "\\") || strstr (argv[0], "..")
    || strneq (argv[0], "/", 2))
    argv[0] = xstrdup (w32ify (argv[0], 1));
#else /* WINDOWS32 */
#endif
if (strchr (argv[0], '\\'))
{
char *p;
argv[0] = xstrdup (argv[0]);
for (p = argv[0]; *p; p++)
if (*p == '\\')
*p = '/';
}
/* If argv[0] is not in absolute form, prepend the current
directory. This can happen when Make is invoked by another DJGPP
program that uses a non-absolute name. */
if (current_directory[0] != '\0'
&& argv[0] != 0
&& (argv[0][0] != '/' && (argv[0][0] == '\0' || argv[0][1] != ':'))
# ifdef __EMX__
/* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
&& (strchr (argv[0], '/') != 0 || strchr (argv[0], '\\') != 0)
# endif
)
argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#else /* !__MSDOS__ */
if (current_directory[0] != '\0'
&& argv[0] != 0 && argv[0][0] != '/' && strchr (argv[0], '/') != 0
#ifdef HAVE_DOS_PATHS
&& (argv[0][0] != '\\' && (!argv[0][0] || argv[0][1] != ':'))
&& strchr (argv[0], '\\') != 0
#endif
)
argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#endif /* !__MSDOS__ */
#endif /* WINDOWS32 */
#endif
/* We may move, but until we do, here we are. */
starting_directory = current_directory;
/* Set up the job_slots value and the jobserver. This can't be usefully set
in the makefile, and we want to verify the authorization is valid before
make has a chance to start using it for something else. */
if (jobserver_auth)
{
if (argv_slots == INVALID_JOB_SLOTS)
{
if (jobserver_parse_auth (jobserver_auth))
{
/* Success! Use the jobserver. */

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job_slots = 0;
goto job_setup_complete;
}
O (error, NILF, _("warning: jobserver unavailable: using -j1. Add '+' to parent make rule."));
arg_job_slots = 1;
}
/* The user provided a -j setting on the command line: use it. */
else if (!restarts)
/* If restarts is >0 we already printed this message. */
O (error, NILF,
_("warning: -jN forced in submake: disabling jobserver mode."));
/* We failed to use our parent's jobserver. */
reset_jobserver ();
job_slots = (unsigned int)arg_job_slots;
}
else if (arg_job_slots == INVALID_JOB_SLOTS)
/* The default is one job at a time. */
job_slots = 1;
else
/* Use whatever was provided. */
job_slots = (unsigned int)arg_job_slots;
job_setup_complete:
/* The extra indirection through $(MAKE_COMMAND) is done
for hysterical raisins. */
#ifdef VMS
if (vms_use_mcr_command)
define_variable_cname ("MAKE_COMMAND", vms_command (argv[0]), o_default, 0);
else
define_variable_cname ("MAKE_COMMAND", program, o_default, 0);
#else
define_variable_cname ("MAKE_COMMAND", argv[0], o_default, 0);
#endif
define_variable_cname ("MAKE", "$(MAKE_COMMAND)", o_default, 1);
if (command_variables != 0)
{
struct command_variable *cv;
struct variable *v;
unsigned int len = 0;
char *value, *p;
/* Figure out how much space will be taken up by the command-line

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variable definitions. */
for (cv = command_variables; cv != 0; cv = cv->next)
{
    v = cv->variable;
    len += 2 * strlen (v->name);
    if (! v->recursive)
        ++len;
    ++len;
    len += 2 * strlen (v->value);
    ++len;
}
/* Now allocate a buffer big enough and fill it. */
p = value = alloca (len);
for (cv = command_variables; cv != 0; cv = cv->next)
{
    v = cv->variable;
    p = quote_for_env (p, v->name);
    if (! v->recursive)
        *p++ = ':';
    *p++ = '=';
    p = quote_for_env (p, v->value);
    *p++ = ' ';       
}
p[-1] = '0';    /* Kill the final space and terminate. */
/* Define an unchangeable variable with a name that no POSIX.2
makefile could validly use for its own variable. */
define_variable_cname ("-*-command-variables-*-", value, o_automatic, 0);
/* Define the variable; this will not override any user definition.
Normally a reference to this variable is written into the value of
MAKEFLAGS, allowing the user to override this value to affect the
exported value of MAKEFLAGS. In POSIX-pedantic mode, we cannot
allow the user's setting of MAKEOVERRIDES to affect MAKEFLAGS, so
a reference to this hidden variable is written instead. */
define_variable_cname ("MAKEOVERRIDES", "$\{-*-command-variables-*-\}$", 
o_env, 1);
#endif VMS
    vms_export_dcl_symbol ("MAKEOVERRIDES", "$\{-*-command-variables-*-\}$
#endif
/* If there were -C flags, move ourselves about. */
if (directories != 0)
{
    unsigned int i;
    for (i = 0; directories->list[i] != 0; ++i)
{  
    const char *dir = directories->list[i];
}

#ifdef WINDOWS32
/* WINDOWS32 chdir() doesn't work if the directory has a trailing '/'
   But allow -C/ just in case someone wants that. */
{
    char *p = (char *)dir + strlen (dir) - 1;
    while (p > dir && (p[0] == '/' || p[0] == '\'))
        --p;
    p[1] = '\0';
}
#endif
if (chdir (dir) < 0)
    pfatal_with_name (dir);
}

#ifdef WINDOWS32
/* THIS BLOCK OF CODE MUST COME AFTER chdir() CALL ABOVE IN ORDER
   TO NOT CONFUSE THE DEPENDENCY CHECKING CODE IN implicit.c.
   *
   * The functions in dir.c can incorrectly cache information for "." before we have changed directory and this can cause file
   * lookups to fail because the current directory (.) was pointing
   * at the wrong place when it was first evaluated.
   */
    no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

/* Except under -s, always do -w in sub-makes and under -C. */
if (!silent_flag && (directories != 0 || makelevel > 0))
    print_directory_flag = 1;

/* Let the user disable that with --no-print-directory. */
if (inhibit_print_directory_flag)
    print_directory_flag = 0;

/* If -R was given, set -r too (doesn't make sense otherwise!) */
if (no_builtin_variables_flag)
    no_builtin_rules_flag = 1;

/* Construct the list of include directories to search. */

construct_include_path (include_directories == 0
    ? 0 : include_directories->list);

/* If we chdir'ed, figure out where we are now. */
if (directories)
{
#ifdef WINDOWS32
    if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
    if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
{
#ifdef HAVE_GETCWD
    perror_with_name ("getcwd", "");
#else
    OS (error, NILF, "getwd: %s", current_directory);
#endif
    starting_directory = 0;
}
else
    starting_directory = current_directory;
}

define_variable_cname ("CURDIR", current_directory, o_file, 0);

/* Read any stdin makefiles into temporary files. */

if (makefiles != 0)
{
    unsigned int i;
    for (i = 0; i < makefiles->idx; ++i)
        if (makefiles->list[i][0] == '-' && makefiles->list[i][1] == '0')
        {
            /* This makefile is standard input. Since we may re-exec
               and thus re-read the makefiles, we read standard input
               into a temporary file and read from that. */
            FILE *outfile;
            char *template;
            const char *tmpdir;

            if (stdin_nm)
                O (fatal, NILF,
                  _("Makefile from standard input specified twice.");

#ifdef VMS
    # define DEFAULT_TMPDIR    "/sys$scratch/"
#else
    # ifdef P_tmpdir
    # define DEFAULT_TMPDIR    P_tmpdir
    # else
    # define DEFAULT_TMPDIR    "/tmp"
    # endif
#endif

            if (stdin_nm)
                O (fatal, NILF, 
                  _("Makefile from standard input specified twice.");) 

            }
#define DEFAULT_TMPFILE "GmXXXXXX"

if (((tmpdir = getenv ("TMPDIR")) == NULL || *tmpdir == '0')
#if defined (__MSDOS__) || defined (WINDOWS32) || defined (__EMX__)
  /* These are also used commonly on these platforms. */
  && ((tmpdir = getenv ("TEMP")) == NULL || *tmpdir == '0')
  && ((tmpdir = getenv ("TMP")) == NULL || *tmpdir == '0')
#endif)
  tmpdir = DEFAULT_TMPDIR;

template = alloca (strlen (tmpdir) + CSTRLEN (DEFAULT_TMPFILE) + 2);
strcpy (template, tmpdir);

#ifdef HAVE_DOS_PATHS
  if (strchr ("\\", template[strlen (template) - 1]) == NULL)
    strcat (template, "/");
#else
  #ifndef VMS
    if (template[strlen (template) - 1] != '/
     strcat (template, "/");
  #endif /* !VMS */
#endif /* !HAVE_DOS_PATHS */

strcat (template, DEFAULT_TMPFILE);
outfile = output_tmpfile (&stdin_nm, template);
if (outfile == 0)
  pfatal_with_name (_("fopen (temporary file)");
while (!feof (stdin) && !ferror (stdin))
  {
    char buf[2048];
    unsigned int n = fread (buf, 1, sizeof (buf), stdin);
    if (n > 0 && fwrite (buf, 1, n, outfile) != n)
      pfatal_with_name (_("fwrite (temporary file)");
  }
fclose (outfile);

/* Replace the name that read_all_makefiles will
 see with the name of the temporary file. */
makefiles->list[i] = strcache_add (stdin_nm);

/* Make sure the temporary file will not be remade. */
{
  struct file *f = enter_file (strcache_add (stdin_nm));
  f->updated = 1;
  f->update_status = us_success;
  f->command_state = cs_finished;
/* Can't be intermediate, or it'll be removed too early for make re-exec. */
    f->intermediate = 0;
    f->dontcare = 0;

/* Set up to handle children dying. This must be done before reading in the makefiles so that 'shell' function calls will work. */

If we don't have a hanging wait we have to fall back to old, broken functionality here and rely on the signal handler and counting children.

If we're using the jobs pipe we need a signal handler so that SIGCHLD is not ignored; we need it to interrupt the read(2) of the jobserver pipe if we're waiting for a token.

If none of these are true, we don't need a signal handler at all. */

{  
    # if defined SIGCHLD
        bsd_signal (SIGCHLD, child_handler);
    # endif
    # if defined SIGCLD && SIGCLD != SIGCHLD
        bsd_signal (SIGCLD, child_handler);
    # endif
}

#ifdef HAVE_PSELECT
    /* If we have pselect() then we need to block SIGCHLD so it's deferred. */
    
    {  
        sigset_t block;
        sigemptyset (&block);
        sigaddset (&block, SIGCHLD);
        if (sigprocmask (SIG_SETMASK, &block, NULL) < 0)
            pfatal_with_name ("sigprocmask(SIG_SETMASK, SIGCHLD)");
    }  
#endif

#endif
#endif

#ifdef SIGUSR1
    bsd_signal (SIGUSR1, debug_signal_handler);
/* Define the initial list of suffixes for old-style rules. */
set_default_suffixes ();

/* Define the file rules for the built-in suffix rules. These will later be converted into pattern rules. We used to do this in install_default_implicit_rules, but since that happens after reading makefiles, it results in the built-in pattern rules taking precedence over makefile-specified suffix rules, which is wrong. */
install_default_suffix_rules ();

/* Define some internal and special variables. */
define_automatic_variables ();

/* Set up the MAKEFLAGS and MFLAGS variables for makefiles to see.
   Initialize it to be exported but allow the makefile to reset it. */
define_makeflags (0, 0)->export = v_export;

/* Define the default variables. */
define_default_variables ();

default_file = enter_file (strcache_add (".DEFAULT"));

default_goal_var = define_variable_cname (".DEFAULT_GOAL", ",", o_file, 0);

/* Evaluate all strings provided with --eval.
   Also set up the $(-*-eval-flags-*-) variable. */

if (eval_strings)
{
    char *p, *value;
    unsigned int i;
    unsigned int len = (CSTRLEN ("--eval=") + 1) * eval_strings->idx;

    for (i = 0; i < eval_strings->idx; ++i)
    {
        p = xstrdup (eval_strings->list[i]);
        len += 2 * strlen (p);
        eval_buffer (p, NULL);
        free (p);
    }

    p = value = alloca (len);
    for (i = 0; i < eval_strings->idx; ++i)
    {
        strcpy (p, "--eval=");
        p += CSTRLEN ("--eval=");
        p += CSTRLEN ("--eval=");
        p += eval_strings->list[i];
    }
p = quote_for_env (p, eval_strings->list[i]);
*(p++) = '\';
}
p[-1] = '\0';

define_variable_cname (".*-eval-flags-.*", value, o_automatic, 0);

/* Read all the makefiles. */
read_files = read_all_makefiles (makefiles == 0 ? 0 : makefiles->list);

#ifdef WINDOWS32
/* look one last time after reading all Makefiles */
if (no_default_sh_exe)
  no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

#ifdef (__MSDOS__) || defined (__EMX__) || defined (VMS)
/* We need to know what kind of shell we will be using. */
{
  extern int _is_unixy_shell (const char * _path);
  struct variable *shv = lookup_variable (STRING_SIZE_TUPLE ("SHELL"));
  extern int unixy_shell;
  extern const char *default_shell;

  if (shv && *shv->value)
  {
    char *shell_path = recursively_expand (shv);

    if (shell_path && _is_unixy_shell (shell_path))
      unixy_shell = 1;
    else
      unixy_shell = 0;
    if (shell_path)
      default_shell = shell_path;
  }
}
#endif /* __MSDOS__ || __EMX__ */

{ int old_builtin_rules_flag = no_builtin_rules_flag;
  int old_builtin_variables_flag = no_builtin_variables_flag;

  /* Decode switches again, for variables set by the makefile. */
  decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

  /* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname("GNUMAKEFLAGS", ",", o_override, 0);

decode_env_switches(STRING_SIZE_TUPLE("MAKEFLAGS"));
#if 0
decode_env_switches(STRING_SIZE_TUPLE("MFLAGS"));
#endif
/* Reset in case the switches changed our mind. */
syncing = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
    output_close(&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET(&make_sync);

/* If we've disabled builtin rules, get rid of them. */
if (no_builtin_rules_flag && ! old_builtin_rules_flag)
{
    if (suffix_file->builtin)
    {
        free_dep_chain(suffix_file->deps);
        suffix_file->deps = 0;
    }
    define_variable_cname("SUFFIXES", ",", o_default, 0);
}
/* If we've disabled builtin variables, get rid of them. */
if (no_builtin_variables_flag && ! old_builtin_variables_flag)
    undefine_default_variables();
}
#if defined(__MSDOS__) || defined(__EMX__) || defined(VMS)
if (arg_job_slots != 1
    # ifdef __EMX__
    && _osmode != OS2_MODE /* turn off -j if we are in DOS mode */
    # endif
)
O (error, NILF,
    _("Parallel jobs (-j) are not supported on this platform."));
O (error, NILF, _("Resetting to single job (-j1) mode."));
arg_job_slots = job_slots = 1;
#endif
/* If we have >1 slot at this point, then we're a top-level make.
Set up the jobserver.

Every make assumes that it always has one job it can run. For the submakes it's the token they were given by their parent. For the top make, we just subtract one from the number the user wants. */

if (job_slots > 1 && jobserver_setup (job_slots - 1))
{
    /* Fill in the jobserver_auth for our children. */
    jobserver_auth = jobserver_get_auth ();

    if (jobserver_auth)
    {
        /* We're using the jobserver so set job_slots to 0. */
        master_job_slots = job_slots;
        job_slots = 0;
    }
}

/* If we're not using parallel jobs, then we don't need output sync. This is so people can enable output sync in GNUMAKEFLAGS or similar, but not have it take effect unless parallel builds are enabled. */
if (syncing && job_slots == 1)
{
    OUTPUT_UNSET ();
    output_close (&make_sync);
    syncing = 0;
    output_sync = OUTPUT_SYNC_NONE;
}
#endif
/* Set up MAKEFLAGS and MFLAGS again, so they will be right. */
define_makeflags (1, 0);
/* Make each 'struct goaldep' point at the 'struct file' for the file depended on. Also do magic for special targets. */
snap_deps ();
/* Convert old-style suffix rules to pattern rules. It is important to
do this before installing the built-in pattern rules below, so that
makefile-specified suffix rules take precedence over built-in pattern
rules. */

convert_to_pattern();

/* Install the default implicit pattern rules.
This used to be done before reading the makefiles.
But in that case, built-in pattern rules were in the chain
before user-defined ones, so they matched first. */

install_default_implicit_rules();

/* Compute implicit rule limits. */

count_implicit_rule_limits();

/* Construct the listings of directories in VPATH lists. */

build_vpath_lists();

/* Mark files given with -o flags as very old and as having been updated
already, and files given with -W flags as brand new (time-stamp as far
as possible into the future). If restarts is set we'll do -W later. */

if (old_files != 0)
{
    const char **p;
    for (p = old_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = OLD_MTIME;
        f->updated = 1;
        f->update_status = us_success;
        f->command_state = cs_finished;
    }
}

if (!restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}
/* Initialize the remote job module. */
remote_setup();

/* Dump any output we've collected. */

OUTPUT_UNSET();
output_close(&make_sync);

if (read_files != 0)
{
    /* Update any makefiles if necessary. */

    FILE_TIMESTAMP *makefile_mtimes = 0;
    unsigned int mm_idx = 0;
    char **aargv = NULL;
    const char **nargv;
    int nargc;
    enum update_status status;

    DB (DB_BASIC, (_("Updating makefiles....\n")));

    /* Remove any makefiles we don't want to try to update. */
    Also record the current modtimes so we can compare them later. */
    
    register struct goaldep *d, *last;
    last = 0;
    d = read_files;
    while (d != 0)
    {
        struct file *f = d->file;
        if (f->double_colon)
            for (f = f->double_colon; f != NULL; f = f->prev)
            {
                if (f->deps == 0 && f->cmds != 0)
                {
                    /* This makefile is a :: target with commands, but no dependencies. So, it will always be remade. This might well cause an infinite loop, so don't try to remake it. (This will only happen if your makefiles are written exceptionally stupidly; but if you work for Athena, that's how you write your makefiles.) */

                    DB (DB_VERBOSE,
                        (_("Makefile '%s' might loop; not remaking it.\n"), f->name));
                }

                DB (DB_BASIC, (_("Updated makefile '%s'\n"), f->name));

                if (last == 0)
read_files = d->next;
else
    last->next = d->next;

/* Free the storage. */
free_goaldep (d);

d = last == 0 ? read_files : last->next;

break;
}
}

if (f == NULL || !f->double_colon)
{
    makefile_mtime = xrealloc (makefile_mtime,
    (mm_idx+1)
    * sizeof (FILE_TIMESTAMP));
    makefile_mtime[mm_idx++] = file_mtime_no_search (d->file);
    last = d;
    d = d->next;
}

/* Set up 'MAKEFLAGS' specially while remaking makefiles. */
define_makeflags (1, 1);

{
    int orig_db_level = db_level;

    if (!ISDB (DB_MAKEFILES))
        db_level = DB_NONE;

    rebuilding_makefiles = 1;
    status = update_goal_chain (read_files);
    rebuilding_makefiles = 0;

    db_level = orig_db_level;
}

switch (status)
{
    case us_question:
        /* The only way this can happen is if the user specified -q and asked for one of the makefiles to be remade as a target on the command line. Since we're not actually updating anything with -q we can treat this as "did nothing". */

case us_none:
    /* Did nothing. */
    break;

case us_failed:
    /* Failed to update. Figure out if we care. */
    {
    /* Nonzero if any makefile was successfully remade. */
    int any_remade = 0;
    /* Nonzero if any makefile we care about failed
    in updating or could not be found at all. */
    int any_failed = 0;
    unsigned int i;
    struct goaldep *d;

    for (i = 0, d = read_files; d != 0; ++i, d = d->next)
    {
        if (d->file->updated)
        {
            /* This makefile was updated. */
            if (d->file->update_status == us_success)
            {
                /* It was successfully updated. */
                any_remade |= (file_mtime_no_search (d->file)
                != makefile_mtimes[i]);
            }
        }
        else
        { /* This makefile was not found at all. */
            if (! (d->flags & RM_DONTCARE))
            {
                FILE_TIMESTAMP mtime;
                /* The update failed and this makefile was not
                from the MAKEFILES variable, so we care. */
                OS (error, NILF, _("Failed to remake makefile \\
                '%%s'."),
                d->file->name);
                mtime = file_mtime_no_search (d->file);
                any_remade |= (mtime != NONEXISTENT_MTIME
                && mtime != makefile_mtimes[i]);
                makefile_status = MAKE_FAILURE;
            }
        }
    }
    else
    { /* This makefile was not found at all. */
        if (! (d->flags & RM_DONTCARE))
        {
            const char *dnm = dep_name (d);
            size_t l = strlen (dnm);

            /* This is a makefile we care about. See how much. */
    }
if (d->flags & RM_INCLUDED)
    /* An included makefile. We don't need to die, but we
do want to complain. */
    error (NILF, l,
        "Included makefile '%s' was not found.", dnm);
else
    {
        /* A normal makefile. We must die later. */
        error (NILF, l,
            "Makefile '%s' was not found.", dnm);
        any_failed = 1;
    }
}

/* Reset this to empty so we get the right error message below. */
read_files = 0;

if (any_remade)
    goto re_exec;
if (any_failed)
    die (MAKE_FAILURE);
    break;
}

case US_SUCCESS:
    re_exec:
    /* Updated successfully. Re-exec ourselves. */

    remove_intermediates (0);

    if (print_data_base_flag)
        print_data_base ();

    clean_jobserver (0);

    if (makefiles != 0)
    {
        /* These names might have changed. */
        int i, j = 0;
        for (i = 1; i < argc; ++i)
            if (strneq (argv[i], "-f", 2)) /* XXX */
                {
                    if (argv[i][2] == '\0')
                        /* This cast is OK since we never modify argv. */
                        argv[++i] = (char *) makefiles->list[j];
                    else
                        argv[i] = xstrdup (concat (2, "-f", makefiles->list[j]));
                    ++j;
                }"
}
}
/* Add -o option for the stdin temporary file, if necessary. */
nargc = argc;
if (stdin_nm)
{
void *m = xmalloc ((nargc + 2) * sizeof (char *));
aargv = m;
memcpy (aargv, argv, argc * sizeof (char *));
aargv[nargc++] = xstrdup (concat (2, "-o", stdin_nm));
aargv[nargc] = 0;
nargv = m;
}
else
nargv = (const char**)argv;
if (directories != 0 && directories->idx > 0)
{
int bad = 1;
if (directory_before_chdir != 0)
{
if (chdir (directory_before_chdir) < 0)
perror_with_name ("chdir", "");
else
bad = 0;
}
if (bad)
O (fatal, NILF,
_("Couldn't change back to original directory."));
}
++restarts;
if (ISDB (DB_BASIC))
{
const char **p;
printf (_("Re-executing[%u]:"), restarts);
for (p = nargv; *p != 0; ++p)
printf (" %s", *p);
putchar ('\n');
fflush (stdout);
}
#ifndef _AMIGA
{
char **p;
for (p = environ; *p != 0; ++p)

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if (strneq (*p, MAKELEVEL_NAME "=", MAKELEVEL_LENGTH+1))
{
    *p = alloca (40);
    sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
#endif /* VMS */
    vms_putenv_symbol (*p);
#endif
}
else if (strneq (*p, "MAKE_RESTARTS=", CSTRLEN ("MAKE_RESTARTS=")))
{
    *p = alloca (40);
    sprintf (*p, "MAKE_RESTARTS=%s%u",
              OUTPUT_IS_TRACED () ? "-" : "", restarts);
    restarts = 0;
}
}
#else /* AMIGA */
{
    char buffer[256];

    sprintf (buffer, "%u", makelevel);
    SetVar (MAKELEVEL_NAME, buffer, -1, GVF_GLOBAL_ONLY);

    sprintf (buffer, "%s%u", OUTPUT_IS_TRACED () ? "-" : "", restarts);
    SetVar ("MAKE_RESTARTS", buffer, -1, GVF_GLOBAL_ONLY);
    restarts = 0;
}
#endif
/* If we didn't set the restarts variable yet, add it. */
if (restarts)
{
    char *b = alloca (40);
    sprintf (b, "MAKE_RESTARTS=%s%u",
              OUTPUT_IS_TRACED () ? "-" : "", restarts);
    putenv (b);
}
fflush (stdout);
fflush (stderr);
#ifdef _AMIGA
    exec_command (nargv);
    exit (0);
#elif defined (__EMX__)

#endif /* _AMIGA */
/* It is not possible to use execve() here because this would cause the parent process to be terminated with exit code 0 before the child process has been terminated. Therefore it may be the best solution simply to spawn the child process including all file handles and to wait for its termination. */
int pid;
int r;
pid = child_execute_job(NULL, 1, nargv, environ);

/* is this loop really necessary? */
do {
    pid = wait (&r);
} while (pid <= 0);
/* use the exit code of the child process */
exit (WIFEXITED(r) ? WEXITSTATUS(r) : EXIT_FAILURE);
#else
#ifdef SET_STACK_SIZE
/* Reset limits, if necessary. */
if (stack_limit.rlim_cur)
    setrlimit (RLIMIT_STACK, &stack_limit);
#endif
    exec_command ((char **)nargv, environ);
#endif
free (aargv);
break;
}
/* Free the makefile mtimes. */
free (makefile_mtimes);
}
/* Set up 'MAKEFLAGS' again for the normal targets. */
define_makeflags (1, 0);
/* Set always_make_flag if -B was given. */
always_make_flag = always_make_set;
/* If restarts is set we haven't set up -W files yet, so do that now. */
if (restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
/* If there is a temp file from reading a makefile from stdin, get rid of it now. */
if (stdin_nm && unlink (stdin_nm) < 0 && errno != ENOENT)
perror_with_name (_("unlink (temporary file): "), stdin_nm);

/* If there were no command-line goals, use the default. */
if (goals == 0)
{
    char *p;

    if (default_goal_var->recursive)
        p = variable_expand (default_goal_var->value);
    else
        {
            p = variable_buffer_output (variable_buffer, default_goal_var->value,
                                        strlen (default_goal_var->value));
            *p = '\0';
            p = variable_buffer;
        }

    if (*p != '\0')
        {
            struct file *f = lookup_file (p);

            /* If .DEFAULT_GOAL is a non-existent target, enter it into the table and let the standard logic sort it out. */
            if (f == 0)
                {
                    struct nameseq *ns;

                    ns = PARSE_SIMPLE_SEQ (&p, struct nameseq);
                    if (ns)
                        {
                            /* .DEFAULT_GOAL should contain one target. */
                            if (ns->next != 0)
                                O (fatal, NILF,
                                    _(".DEFAULT_GOAL contains more than one target"));

                            f = enter_file (strcache_add (ns->name));

                            ns->name = 0; /* It was reused by enter_file(). */
                            free_ns_chain (ns);
                        }
        }

    if (f)
goals = alloc_goaldep ();
goals->file = f;
}
}
}
else
lastgoal->next = 0;

if (!goals)
{
if (read_files == 0)
    O (fatal, NILF, _("No targets specified and no makefile found"));

    O (fatal, NILF, _("No targets"));
}

/* Update the goals. */

DB (DB_BASIC, (_("Updating goal targets...
")));

{
switch (update_goal_chain (goals))
{
case us_none:
    /* Nothing happened. */
    /* FALLTHROUGH */
case us_success:
    /* Keep the previous result. */
    break;
case us_question:
    /* We are under -q and would run some commands. */
    makefile_status = MAKE_TROUBLE;
    break;
case us_failed:
    /* Updating failed. POSIX.2 specifies exit status >1 for this; */
    makefile_status = MAKE_FAILURE;
    break;
}

/* If we detected some clock skew, generate one last warning */
if (clock_skew_detected)
    O (error, NILF,
        _("warning: Clock skew detected. Your build may be incomplete.");

/* Exit. */
die (makefile_status);
}
/* NOTREACHED */
exit (MAKE_SUCCESS);
}
/* Parsing of arguments, decoding of switches. */
static char options[1 + sizeof (switches) / sizeof (switches[0]) * 3];
static struct option long_options[(sizeof (switches) / sizeof (switches[0])) +
(sizeof (long_option_aliases) /
sizeof (long_option_aliases[0]))];
/* Fill in the string and vector for getopt. */
static void
init_switches (void)
{
char *p;
unsigned int c;
unsigned int i;
if (options[0] != '\0')
/* Already done. */
return;
p = options;
/* Return switch and non-switch args in order, regardless of
POSIXLY_CORRECT. Non-switch args are returned as option 1. */
*p++ = '-';
for (i = 0; switches[i].c != '\0'; ++i)
{
long_options[i].name = (switches[i].long_name == 0 ? "" :
switches[i].long_name);
long_options[i].flag = 0;
long_options[i].val = switches[i].c;
if (short_option (switches[i].c))
*p++ = switches[i].c;
switch (switches[i].type)
{
case flag:
case flag_off:
case ignore:
long_options[i].has_arg = no_argument;
break;
case string:

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case strlist:
case filename:
case positive_int:
case floating:
if (short_option (switches[i].c))
*p++ = ':';
if (switches[i].noarg_value != 0)
{
if (short_option (switches[i].c))
*p++ = ':';
long_options[i].has_arg = optional_argument;
}
else
long_options[i].has_arg = required_argument;
break;
}
}
*p = '\0';
for (c = 0; c < (sizeof (long_option_aliases) /
sizeof (long_option_aliases[0]));
++c)
long_options[i++] = long_option_aliases[c];
long_options[i].name = 0;
}

/* Non-option argument. It might be a variable definition. */
static void
handle_non_switch_argument (const char *arg, int env)
{
struct variable *v;
if (arg[0] == '-' && arg[1] == '\0')
/* Ignore plain '-' for compatibility. */
return;
#ifdef VMS
{
/* VMS DCL quoting can result in foo="bar baz" showing up here.
Need to remove the double quotes from the value. */
char * eq_ptr;
char * new_arg;
eq_ptr = strchr (arg, '=');
if ((eq_ptr != NULL) && (eq_ptr[1] == '"'))
{
int len;
int seg1;
int seg2;

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len = strlen(arg);
new_arg = alloca(len);
seg1 = eq_ptr - arg + 1;
strncpy(new_arg, arg, (seg1));
seg2 = len - seg1 - 1;
strncpy(&new_arg[seg1], &eq_ptr[2], seg2);
new_arg[seg1 + seg2] = 0;
if (new_arg[seg1 + seg2 - 1] == '"
new_arg[seg1 + seg2 - 1] = 0;
arg = new_arg;
}
}
#endif
v = try_variable_definition (0, arg, o_command, 0);
if (v != 0)
{
/* It is indeed a variable definition. If we don't already have this
 one, record a pointer to the variable for later use in
 define_makeflags. */
 struct command_variable *cv;

 for (cv = command_variables; cv != 0; cv = cv->next)
 if (cv->variable == v)
 break;

 if (! cv)
 {
  cv = xmalloc (sizeof (*cv));
  cv->variable = v;
  cv->next = command_variables;
  command_variables = cv;
 }
 else if (! env)
 {
 /* Not an option or variable definition; it must be a goal
 target! Enter it as a file and add it to the dep chain of
 goals. */
 struct file *f = enter_file (strcache_add (expand_command_line_file (arg)));
 f->cmd_target = 1;

 if (goals == 0)
 {
  goals = alloc_goaldep ();
  lastgoal = goals;
 }
 else
 {
lastgoal->next = alloc_goaldep ();
lastgoal = lastgoal->next;
}

lastgoal->file = f;
{
    /* Add this target name to the MAKECMDGOALS variable. */
    struct variable *gv;
    const char *value;
    gv = lookup_variable (STRING_SIZE_TUPLE ("MAKECMDGOALS"));
    if (gv == 0)
        value = f->name;
    else
        {
            /* Paste the old and new values together */
            unsigned int oldlen, newlen;
            char *vp;
            oldlen = strlen (gv->value);
            newlen = strlen (f->name);
            vp = alloca (oldlen + 1 + newlen + 1);
            memcpy (vp, gv->value, oldlen);
            vp[oldlen] = ' ';  
            memcpy (&vp[oldlen + 1], f->name, newlen + 1);
            value = vp;
        }
    define_variable_cname ("MAKECMDGOALS", value, o_default, 0);
}
}

/* Print a nice usage method. */

static void
print_usage (int bad)
{
    const char *const *cpp;
    FILE *usageto;

    if (print_version_flag)
        print_version ();

    usageto = bad ? stderr : stdout;

    fprintf (usageto, _("Usage: %s [options] [target] ...
"), program);
for (cpp = usage; *cpp; ++cpp)
    fputs (_(*cpp), usageto);

if (!remote_description || *remote_description == '\0')
    fprintf (usageto, _("This program built for %s\n"), make_host);
else
    fprintf (usageto, _("This program built for %s (%s)\n"),
        make_host, remote_description);

fprintf (usageto, _("Report bugs to <bug-make@gnu.org>\n"));
}

/* Decode switches from ARGC and ARGV.  
They came from the environment if ENV is nonzero. */

static void
decode_switches (int argc, const char **argv, int env)
{
    int bad = 0;
    register const struct command_switch *cs;
    register struct stringlist *sl;
    register int c;

    /* getopt does most of the parsing for us.  
       First, get its vectors set up. */
    init_switches ();

    /* Let getopt produce error messages for the command line,  
       but not for options from the environment. */
    opterr = !env;
    /* Reset getopt's state. */
    optind = 0;

    while (optind < argc)
    {
        const char *coptarg;

        /* Parse the next argument. */
        c = getopt_long (argc, (char*const*)argv, options, long_options, NULL);
        coptarg = optarg;
        if (c == EOF)
            /* End of arguments, or "--" marker seen. */
            break;
        else if (c == 1)
            /* An argument not starting with a dash. */
            handle_non_switch_argument (coptarg, env);
        else if (c == '?')
/* Bad option. We will print a usage message and die later. But continue to parse the other options so the user can see all he did wrong. */
bad = 1;
else
for (cs = switches; cs->c != '\0'; ++cs)
if (cs->c == c)
{
    /* Whether or not we will actually do anything with this switch. We test this individually inside the switch below rather than just once outside it, so that options which are to be ignored still consume args. */
    int doit = !env || cs->env;

    switch (cs->type)
    {
    default:
        abort ();

    case ignore:
        break;

    case flag:
    case flag_off:
        if (doit)
            *(int *) cs->value_ptr = cs->type == flag;
        break;

    case string:
    case strlist:
    case filename:
        if (!doit)
            break;

        if (! coptarg)
            coptarg = xstrdup (cs->noarg_value);
        else if (*coptarg == '\0')
        {
            char opt[2] = "c";
            const char *op = opt;

            if (short_option (cs->c))
                opt[0] = cs->c;
            else
                op = cs->long_name;

            error (NILF, strlen (op),
                "the '%s%s' option requires a non-empty string argument")
short_option (cs->c) ? "-" : "--", op);

bad = 1;
break;
}

if (cs->type == string)
{
  char **val = (char **)cs->value_ptr;
  free (*val);
  *val = xstrdup (coptarg);
  break;
}

sl = *(struct stringlist **) cs->value_ptr;
if (sl == 0)
{
  sl = xmalloc (sizeof (struct stringlist));
  sl->max = 5;
  sl->idx = 0;
  sl->list = xmalloc (5 * sizeof (char *));
  *(struct stringlist **) cs->value_ptr = sl;
}
else if (sl->idx == sl->max - 1)
{
  sl->max += 5;
  /* MSVC erroneously warns without a cast here. */
  sl->list = xrealloc ((void *)sl->list,
    sl->max * sizeof (char *));
}
if (cs->type == filename)
  sl->list[sl->idx++] = expand_command_line_file (coptarg);
else
  sl->list[sl->idx++] = xstrdup (coptarg);
sl->list[sl->idx] = 0;
break;

case positive_int:
  /* See if we have an option argument; if we do require that
   it's all digits, not something like "10foo". */
  if (coptarg == 0 && argc > optind)
  {
    const char *ep;
    for (cp=argv[optind]; ISDIGIT (cp[0]); ++cp)
      ;
    if (cp[0] == '\0')
      coptarg = argv[optind++];
  }
if (!doit)
    break;

if (coptarg)
{
    int i = atoi (coptarg);
    const char *cp;

    /* Yes, I realize we're repeating this in some cases. */
    for (cp = coptarg; ISDIGIT (cp[0]); ++cp)
    {
        if (i < 1 || cp[0] != '0')
        {
            error (NILF, 0,
                _("the '-%c' option requires a positive integer argument"),
                cs->c);
            bad = 1;
        }
        else
            *(unsigned int *) cs->value_ptr = i;
    }
    else
        *(unsigned int *) cs->value_ptr = *(unsigned int *) cs->noarg_value;
    break;

#define NO_FLOAT
    case floating:
    if (coptarg == 0 && optind < argc
        && (ISDIGIT (argv[optind][0]) || argv[optind][0] == '.'))
        coptarg = argv[optind++];

    if (doit)
        *(double *) cs->value_ptr
        = (coptarg != 0 ? atof (coptarg)
            : *(double *) cs->noarg_value);
    break;
#undef NO_FLOAT
}

/* We've found the switch. Stop looking. */
break;
}

/* There are no more options according to getting getopt, but there may
be some arguments left. Since we have asked for non-option arguments
to be returned in order, this only happens when there is a "--"
argument to prevent later arguments from being options. */
while (optind < argc)
  handle_non_switch_argument (argv[optind++], env);

if (!env && (bad || print_usage_flag))
{
  print_usage (bad);
  die (bad ? MAKE_FAILURE : MAKE_SUCCESS);
}
/* If there are any options that need to be decoded do it now. */
decode_debug_flags ();
decode_output_sync_flags ();
}
/* Decode switches from environment variable ENVAR (which is LEN chars long).
We do this by chopping the value into a vector of words, prepending a
dash to the first word if it lacks one, and passing the vector to
decode_switches. */

static void
decode_env_switches (const char *envar, unsigned int len)
{
  char *varref = alloca (2 + len + 2);
  char *value, *p, *buf;
  int argc;
  const char **argv;

  /* Get the variable's value. */
  varref[0] = '\$';
  varref[1] = '\(';
  memcpy (&varref[2], envar, len);
  varref[2 + len] = '\)';
  varref[2 + len + 1] = '\0';
  value = variable_expand (varref);

  /* Skip whitespace, and check for an empty value. */
  NEXT_TOKEN (value);
  len = strlen (value);
  if (len == 0)
    return;

  /* Allocate a vector that is definitely big enough. */
  argv = alloca ((1 + len + 1) * sizeof (char *));

  /* getopt will look at the arguments starting at ARGV[1].

Prepend a spacer word. */
argv[0] = 0;
argc = 1;

/* We need a buffer to copy the value into while we split it into words
    and unquote it. Set up in case we need to prepend a dash later. */
buf = alloca (1 + len + 1);
buf[0] = '\';
p = buf+1;
argv[argc] = p;
while (*value != '\0')
{
    if (*value == '\' && value[1] != '\0')
        /* Skip the backslash. */
        ++value;
    else if (ISBLANK (*value))
    {
        /* End of the word. */
        *p++ = '\0';
        argv[++argc] = p;
        do
            ++value;
        while (ISBLANK (*value));
        continue;
    }
    *p++ = *value++;
}
*p = '\0';
argv[++argc] = 0;
assert (p < buf + len + 2);

if (argv[1][0] != '-' && strchr (argv[1], '=') == 0)
    /* The first word doesn't start with a dash and isn't a variable
       definition, so add a dash. */
    argv[1] = buf;

/* Parse those words. */
decode_switches (argc, argv, 1);
}

/* Quote the string IN so that it will be interpreted as a single word with
   no magic by decode_env_switches; also double dollar signs to avoid
   variable expansion in make itself. Write the result into OUT, returning
   the address of the next character to be written.
   Allocating space for OUT twice the length of IN is always sufficient. */

static char *
quote_for_env (char *out, const char *in)
{
while (*in != '\0')
{
if (*in == '$')
*out++ = '$';
else if (ISBLANK (*in) || *in == '\\')
*out++ = '\\';
*out++ = *in++;
}
return out;
}
/* Define the MAKEFLAGS and MFLAGS variables to reflect the settings of the
command switches. Include options with args if ALL is nonzero.
Don't include options with the 'no_makefile' flag set if MAKEFILE. */
static struct variable *
define_makeflags (int all, int makefile)
{
const char ref[] = "$(MAKEOVERRIDES)";
const char posixref[] = "$(-*-command-variables-*-)";
const char evalref[] = "$(-*-eval-flags-*-)";
const struct command_switch *cs;
char *flagstring;
char *p;
/* We will construct a linked list of 'struct flag's describing
all the flags which need to go in MAKEFLAGS. Then, once we
know how many there are and their lengths, we can put them all
together in a string. */
struct flag
{
struct flag *next;
const struct command_switch *cs;
const char *arg;
};
struct flag *flags = 0;
struct flag *last = 0;
unsigned int flagslen = 0;
#define ADD_FLAG(ARG, LEN) \
do {
\
struct flag *new = alloca (sizeof (struct flag));
new->cs = cs;
\
new->arg = (ARG);
\
new->next = 0;
\
if (! flags)
\
flags = new;
\

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\


else
  last->next = new;
last = new;
if (new->arg == 0)
  /* Just a single flag letter: " -x" */
  flagslen += 3;
else
  /* " -xfoo", plus space to escape "foo". */
  flagslen += 1 + 1 + 1 + (3 * (LEN));
if (!short_option (cs->c))
  /* This switch has no single-letter version, so we use the long. */
  flagslen += 2 + strlen (cs->long_name);
} while (0)

for (cs = switches; cs->c != '\0'; ++cs)
  switch (cs->type)
  {
    case ignore:
      break;
    case flag:
      case flag_off:
        if (!*(int *) cs->value_ptr &&
            (cs->type == flag_off)
            && (cs->default_value == 0 || *(int *) cs->value_ptr != *(int *) cs->default_value))
          ADD_FLAG (0, 0);
        break;
    case positive_int:
      if (all)
        {
          if ((cs->default_value != 0 && *(unsigned int *) cs->value_ptr == *(unsigned int *) cs->default_value))
            break;
        else if (cs->noarg_value != 0 && *(unsigned int *) cs->value_ptr == *(unsigned int *) cs->noarg_value)
            ADD_FLAG ("", 0); /* Optional value omitted; see below. */
        else
          {
            char *buf = alloca (30);
            sprintf (buf, "%u", *(unsigned int *) cs->value_ptr);
            ADD_FLAG (buf, strlen (buf));
          }
        }
      break;
#ifndef NO_FLOAT

case floating:
   if (all)
      {
         if (cs->default_value != 0
            && *((double *) cs->value_ptr
                == *(double *) cs->default_value))
            break;
         else if (cs->noarg_value != 0
                  && *((double *) cs->value_ptr
                     == *(double *) cs->noarg_value))
            ADD_FLAG ("", 0); /* Optional value omitted; see below. */
         else
            {
               char *buf = alloca (100);
               sprintf (buf, "%g", *(double *) cs->value_ptr);
               ADD_FLAG (buf, strlen (buf));
            }
         break;
      }

# endif

case string:
   if (all)
      {
         p = *((char **) cs->value_ptr);
         if (p)
            ADD_FLAG (p, strlen (p));
         break;
      }

case filename:
   case strlist:
      if (all)
         {
            struct stringlist *sl = *(struct stringlist **) cs->value_ptr;
            if (sl != 0)
               {
                  unsigned int i;
                  for (i = 0; i < sl->idx; ++i)
                     ADD_FLAG (sl->list[i], strlen (sl->list[i]));
               }
            break;
         }

default:
       abort ();

/* Four more for the possible "--", plus variable references. */
flagslen += 4 + CSTRLEN (posixref) + 1 + CSTRLEN (evalref) + 1;

/* Construct the value in FLAGSTRING. */
/* We allocate enough space for a preceding dash and trailing null. */
flagstring = alloca (1 + flagslen + 1);
memset (flagstring, '\0', 1 + flagslen + 1);
p = flagstring;

/* Start with a dash, for MFLAGS. */
*p++ = '-';

/* Add simple options as a group. */
while (flags != 0 && !flags->arg && short_option (flags->cs->c))
{
    *p++ = flags->cs->c;
    flags = flags->next;
}

/* Now add more complex flags: ones with options and/or long names. */
while (flags)
{
    /* Add the flag letter or name to the string. */
    if (short_option (flags->cs->c))
        *p++ = flags->cs->c;
    else
    {
        /* Long options require a double-dash. */
        *p++ = '-';
        strcpy (p, flags->cs->long_name);
        p += strlen (p);
    }

    /* An omitted optional argument has an ARG of "". */
    if (flags->arg && flags->arg[0] != '\0')
    {
        if (!short_option (flags->cs->c))
            /* Long options require '='. */
            *p++ = '=';
        p = quote_for_env (p, flags->arg);
    }
    flags = flags->next;
}
/* If no flags at all, get rid of the initial dash. */
if (p == &flagstring[1])
{
    flagstring[0] = '0';
    p = flagstring;
}

/* Define MFLAGS before appending variable definitions. Omit an initial empty dash. Since MFLAGS is not parsed for flags, there is no reason to override any makefile redefinition. */
define_variable_cname ("MFLAGS",
    flagstring + (flagstring[0] == '-' && flagstring[1] == ' ' ? 2 : 0),
    o_env, 1);

/* Write a reference to -*-eval-flags-*-, which contains all the --eval flag options. */
if (eval_strings)
{
    *p++ = ' '; memcp (p, evalref, CSTRLEN (evalref));
    p += CSTRLEN (evalref);
}

if (all && command_variables)
{
    /* Write a reference to $(MAKEOVERRIDES), which contains all the command-line variable definitions. Separate the variables from the switches with a "--" arg. */
    strcpy (p, " -- ");
    p += 4;

    /* Copy in the string. */
    if (posix_pedantic)
    {
        memcp (p, posixref, CSTRLEN (posixref));
        p += CSTRLEN (posixref);
    } else
    {
        memcp (p, ref, CSTRLEN (ref));
        p += CSTRLEN (ref);
    }
}

/* If there is a leading dash, omit it. */
if (flagstring[0] == '-')
++flagstring;

/* This used to use o_env, but that lost when a makefile defined MAKEFLAGS.
Makefiles set MAKEFLAGS to add switches, but we still want to redefine
its value with the full set of switches. Then we used o_file, but that
lost when users added -e, causing a previous MAKEFLAGS env. var. to take
precedence over the new one. Of course, an override or command
definition will still take precedence. */
return define_variable_cname("MAKEFLAGS", flagstring,
    env_overrides ? o_env_override : o_file, 1);
}

/* Print version information. */

static void
print_version (void)
{
static int printed_version = 0;

const char *precede = print_data_base_flag ? "# " : "";

if (printed_version)
    /* Do it only once. */
    return;

printf ("%sGNU Make %s
", precede, version_string);

if (!remote_description || *remote_description == '\0')
    printf (_("%sBuilt for %s\n"), precede, make_host);
else
    printf (_("%sBuilt for %s (%s)\n"),
        precede, make_host, remote_description);

/* Print this untranslated. The coding standards recommend translating the
(C) to the copyright symbol, but this string is going to change every
year, and none of the rest of it should be translated (including the
word "Copyright"), so it hardly seems worth it. */

printf ("%sCopyright (C) 1988-2016 Free Software Foundation, Inc.\n", precede);

printf (_("%sLicense GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>\n%sThis is free software: you are free to change and redistribute it.\n%sThere is NO WARRANTY, to the extent permitted by law.\n"),
    precede, precede, precede);

printed_version = 1;
/* Flush stdout so the user doesn't have to wait to see the
   version information while make thinks about things. */
fflush stdout;
}

/* Print a bunch of information about this and that. */

static void
print_data_base (void)
{
  time_t when = time ((time_t *) 0);

  print_version ();

  printf (_("\n# Make data base, printed on %s"), ctime (&when));

  print_variable_data_base ();
  print_dir_data_base ();
  print_rule_data_base ();
  print_file_data_base ();
  print_vpath_data_base ();
  strcache_print_stats ("#");

  when = time ((time_t *) 0);
  printf (_("\n# Finished Make data base on %s\n"), ctime (&when));
}

static void
clean_jobserver (int status)
{
  /* Sanity: have we written all our jobserver tokens back? If our
     exit status is 2 that means some kind of syntax error; we might not
     have written all our tokens so do that now. If tokens are left
     after any other error code, that's bad. */

  if (jobserver_enabled() && jobserver_tokens)
    { 
    if (status != 2)
      ON (error, NILF,
           "INTERNAL: Exiting with %u jobserver tokens (should be 0)!",
           jobserver_tokens);
    else
      /* Don't write back the "free" token */
      while (--jobserver_tokens)
        jobserver_release (0);
    }
}
/* Sanity: If we're the master, were all the tokens written back? */

if (master_job_slots)
{
    /* We didn't write one for ourself, so start at 1. */
    unsigned int tokens = 1 + jobserver_acquire_all ();

    if (tokens != master_job_slots)
        ONN (error, NILF,
            "INTERNAL: Exiting with %u jobserver tokens available; should be %u!",
            tokens, master_job_slots);

    reset_jobserver ();
}

/* Exit with STATUS, cleaning up as necessary. */

void
die (int status)
{
    static char dying = 0;

    if (!dying)
    {
        int err;

        dying = 1;

        if (print_version_flag)
            print_version ();

        /* Wait for children to die. */
        err = (status != 0);
        while (job_slots_used > 0)
            reap_children (1, err);

        /* Let the remote job module clean up its state. */
        remote_cleanup ();

        /* Remove the intermediate files. */
        remove_intermediates (0);

        if (print_data_base_flag)
            print_data_base ();

        if (verify_flag)
verify_file_data_base();

clean_jobserver(status);

if (output_context)
{
  /* die() might be called in a recipe output context due to an
     $(error ...) function. */
  output_close(output_context);

  if (output_context != &make_sync)
    output_close(&make_sync);

  OUTPUT_UNSET();
}

output_close(NULL);

/* Try to move back to the original directory. This is essential on
 MS-DOS (where there is really only one process), and on Unix it
 puts core files in the original directory instead of the -C
 directory. Must wait until after remove_intermediates(), or unlinks
 of relative pathnames fail. */
if (directory_before_chdir != 0)
{
  /* If it fails we don’t care: shut up GCC. */
  int _x UNUSED;
  _x = chdir(directory_before_chdir);
}
}

exit(status);

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```
# Contributions to the urllib3 project

## Creator & Maintainer

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## Contributors

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>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* 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

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@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 <abacababadabacula@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

* Jess 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 <s6yg1ez3@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 vending
* 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 Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* 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

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside `HTTPConnectionPool._make_request()`, also for BaseExceptions.
Open Source Used In Polaris_MR_Releases 17.3.4 9981

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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1.842 python-pyparsing 2.4.2 r0

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#include "wget.h"
#include "hash.h"
#include "utils.h"
#include "version.h"
#include "dirname.h"
#include "url.h"

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <tmpdir.h>
#include <sha1.h>
#include <base32.h>
#include <unistd.h>
#ifdef HAVE_LIBZ
#include <zlib.h>
#endif
#ifdef HAVE_LIBUUID
#include <uuid/uuid.h>
#elif HAVE_UUID_CREATE
#include <uuid.h>
#endif

#include "warc.h"
#include "exits.h"
#ifdef WINDOWS
  /* we need this on Windows to have O_TEMPORARY defined */
  # include <fcntl.h>
  # include <rpc.h>
  #endif

#ifndef O_TEMPORARY
  #define O_TEMPORARY 0
  #endif

#include "warc.h"
#include "exits.h"

/* The log file (a temporary file that contains a copy
   of the wget log). */
static FILE *warc_log_fp;

/* The manifest file (a temporary file that contains the
   warcinfo uuid of every file in this crawl). */
static FILE *warc_manifest_fp;

/* The current WARC file (or NULL, if WARC is disabled). */
static FILE *warc_current_file;

#ifdef HAVE_LIBZ
  /* The gzip stream for the current WARC file
     (or NULL, if WARC or gzip is disabled). */
  static gzFile warc_current_gzfile;

  /* The offset of the current gzip record in the WARC file. */
  static off_t warc_current_gzfile_offset;

  /* The uncompressed size (so far) of the current record. */
  static off_t warc_current_gzfile_uncompressed_size;
  # endif

/* This is true until a warc_write_* method fails. */
static bool warc_write_ok;

/* The current CDX file (or NULL, if CDX is disabled). */
static FILE *warc_current_cdx_file;

/* The record id of the warcinfo record of the current WARC file. */
static char warc_current_warcinfo_uuid_str[48];

/* The file name of the current WARC file. */
static char *warc_current_filename;

/* The serial number of the current WARC file. This number is
incremented each time a new file is opened and is used in the
WARC file's filename. */
static int warc_current_file_number;

/* The table of CDX records, if deduplication is enabled. */
static struct hash_table * warc_cdx_dedup_table;

static bool warc_start_new_file (bool meta);

struct warc_cdx_record
{
  char *url;
  char *uuid;
  char digest[SHA1_DIGEST_SIZE];
};

static unsigned long
warc_hash_sha1_digest (const void *key)
{
  /* We just use some of the first bytes of the digest. */
  unsigned long v = 0;
  memcpy (&v, key, sizeof (unsigned long));
  return v;
}

static int
warc_cmp_sha1_digest (const void *digest1, const void *digest2)
{
  return !memcmp (digest1, digest2, SHA1_DIGEST_SIZE);
}

/* Writes SIZE bytes from BUFFER to the current WARC file,
through gzwrite if compression is enabled.
Returns the number of uncompressed bytes written. */
static size_t
warc_write_buffer (const char *buffer, size_t size)
{
#ifdef HAVE_LIBZ
  if (warc_current_gzfile)
  {
    warc_current_gzfile_uncompressed_size += size;
    return gzwrite (warc_current_gzfile, buffer, size);
  }
#endif
}
/* Writes STR to the current WARC file.  
Returns false and set warc_write_ok to false if there 
is an error. */
static bool
warc_write_string (const char *str)
{
    size_t n;

    if (!warc_write_ok)
        return false;

    n = strlen (str);
    if (n != warc_write_buffer (str, n))
        warc_write_ok = false;

    return warc_write_ok;
}

#define EXTRA_GZIP_HEADER_SIZE 14
#define GZIP_STATIC_HEADER_SIZE  10
#define FLG_FEXTRA          0x04
#define OFF_FLG             3

/* Starts a new WARC record.  Writes the version header.  
If opt.warc_maxsize is set and the current file is becoming 
too large, this will open a new WARC file.  
If compression is enabled, this will start a new 
gzip stream in the current WARC file.  
Returns false and set warc_write_ok to false if there 
is an error. */
static bool
warc_write_start_record (void)
{
    if (!warc_write_ok)
        return false;

    fflush (warc_current_file);
    if (opt.warc_maxsize > 0 && ftello (warc_current_file) >= opt.warc_maxsize)
        warc_start_new_file (false);
#ifdef HAVE_LIBZ
/* Start a GZIP stream, if required. */
if (opt.warc_compression_enabled)
{
    /* Record the starting offset of the new record. */
    warc_current_gzfile_offset = ftello (warc_current_file);

    /* Reserve space for the extra GZIP header field. */
    In warc_write_end_record we will fill this space
    with information about the uncompressed and
    compressed size of the record. */
    fseek (warc_current_file, EXTRA_GZIP_HEADER_SIZE, SEEK_CUR);
    fflush (warc_current_file);

    /* Start a new GZIP stream. */
    warc_current_gzfile = gzopen (dup (fileno (warc_current_file)), "wb9");
    warc_current_gzfile_uncompressed_size = 0;

    if (warc_current_gzfile == NULL)
    {
        logprintf (LOG_NOTQUIET,
        (_, "Error opening GZIP stream to WARC file.
"));
        warc_write_ok = false;
        return false;
    }
    }
#endif

warc_write_string ("WARC/1.0\n");
return warc_write_ok;

/* Writes a WARC header to the current WARC record.
 * This method may be run after warc_write_start_record and
 * before warc_write_block_from_file. */
static bool
warc_write_header (const char *name, const char *value)
{
    if (value)
    {
        warc_write_string (name);
        warc_write_string (": ");
        warc_write_string (value);
        warc_write_string ("\n");
    }
    return warc_write_ok;
}
/* Writes a WARC header with a URI as value to the current WARC record. 
This method may be run after warc_write_start_record and 
before warc_write_block_from_file. */
static bool
warc_write_header_uri (const char *name, const char *value)
{
  if (value)
  {
    warc_write_string (name);
    warc_write_string (": <");
    warc_write_string (value);
    warc_write_string (">\n"");
  }
  return warc_write_ok;
}

/* Copies the contents of DATA_IN to the WARC record. 
Adds a Content-Length header to the WARC record. 
Run this method after warc_write_header, 
then run warc_write_end_record. */
static bool
warc_write_block_from_file (FILE *data_in)
{
  /* Add the Content-Length header. */
  char content_length[MAX_INT_TO_STRING_LEN(off_t)];
  char buffer[BUFSIZ];
  size_t s;
  fseeko (data_in, 0L, SEEK_END);
  number_to_string (content_length, ftello (data_in));
  warc_write_header ("Content-Length", content_length);
  /* End of the WARC header section. */
  warc_write_string ("\n");
  if (fseeko (data_in, 0L, SEEK_SET) != 0)
    warc_write_ok = false;
  /* Copy the data in the file to the WARC record. */
  while (warc_write_ok && (s = fread (buffer, 1, BUFSIZ, data_in)) > 0)
  {
    if (warc_write_buffer (buffer, s) < s)
      warc_write_ok = false;
  }
  return warc_write_ok;
}
/* Run this method to close the current WARC record. */

If compression is enabled, this method closes the current GZIP stream and fills the extra GZIP header with the uncompressed and compressed length of the record. */

static bool warc_write_end_record (void)
{
  warc_write_buffer ("\r\n\r\n", 4);

#ifdef HAVE_LIBZ
/* We start a new gzip stream for each record. */
if (warc_write_ok && warc_current_gzfile)
{
  char extra_header[EXTRA_GZIP_HEADER_SIZE];
  char static_header[GZIP_STATIC_HEADER_SIZE];
  off_t current_offset, uncompressed_size, compressed_size;
  size_t result;

  if (gzclose (warc_current_gzfile) != Z_OK)
    {
    warc_write_ok = false;
    return false;
    }

  fflush (warc_current_file);
  fseeko (warc_current_file, 0, SEEK_END);

  /* The WARC standard suggests that we add 'skip length' data in the extra header field of the GZIP stream. */

  In warc_write_start_record we reserved space for this extra header. This extra space starts at warc_current_gzfile_offset and fills EXTRA_GZIP_HEADER_SIZE bytes. The static GZIP header starts at warc_current_gzfile_offset + EXTRA_GZIP_HEADER_SIZE.

  We need to do three things:
  1. Move the static GZIP header to warc_current_gzfile_offset;
  2. Set the FEXTRA flag in the GZIP header;
  3. Write the extra GZIP header after the static header, that is, starting at warc_current_gzfile_offset + GZIP_STATIC_HEADER_SIZE.
   */

  /* Calculate the uncompressed and compressed sizes. */
  current_offset = ftello (warc_current_file);
  uncompressed_size = current_offset - warc_current_gzfile_offset;
compressed_size = warc_current_gzfile_uncompressed_size;

/* Go back to the static GZIP header. */
fseeko (warc_current_file, warc_current_gzfile_offset + EXTRA_GZIP_HEADER_SIZE, SEEK_SET);

/* Read the header. */
result = fread (static_header, 1, GZIP_STATIC_HEADER_SIZE, warc_current_file);
if (result != GZIP_STATIC_HEADER_SIZE)
{
    warc_write_ok = false;
    return false;
}

/* Set the FEXTRA flag in the flags byte of the header. */
static_header[OFF_FLG] = static_header[OFF_FLG] | FLG_FEXTRA;

/* Write the header back to the file, but starting at warc_current_gzfile_offset. */
fseeko (warc_current_file, warc_current_gzfile_offset, SEEK_SET);
fwrite (static_header, 1, GZIP_STATIC_HEADER_SIZE, warc_current_file);

/* Prepare the extra GZIP header. */
/* XLEN, the length of the extra header fields. */
extra_header[0] = ((EXTRA_GZIP_HEADER_SIZE - 2) & 255);
extra_header[1] = ((EXTRA_GZIP_HEADER_SIZE - 2) >> 8) & 255;
/* The extra header field identifier for the WARC skip length. */
extra_header[2] = 's';
extra_header[3] = 'l';
/* The size of the field value (8 bytes). */
extra_header[4] = (8 & 255);
extra_header[5] = ((8 >> 8) & 255);
/* The size of the uncompressed record. */
extra_header[6] = (uncompressed_size & 255);
extra_header[7] = (uncompressed_size >> 8) & 255;
extra_header[8] = (uncompressed_size >> 16) & 255;
extra_header[9] = (uncompressed_size >> 24) & 255;
/* The size of the compressed record. */
extra_header[10] = (compressed_size & 255);
extra_header[12] = (compressed_size >> 16) & 255;
extra_header[13] = (compressed_size >> 24) & 255;

/* Write the extra header after the static header. */
fseeko (warc_current_file, warc_current_gzfile_offset + GZIP_STATIC_HEADER_SIZE, SEEK_SET);
fwrite (extra_header, 1, EXTRA_GZIP_HEADER_SIZE, warc_current_file);
/* Done, move back to the end of the file. */
fflush (warc_current_file);
fseeko (warc_current_file, 0, SEEK_END);
}
#endif /* HAVE_LIBZ */

return warc_write_ok;
}

/* Writes the WARC-Date header for the given timestamp to the current WARC record. If timestamp is NULL, the current time will be used. */
static bool
warc_write_date_header (const char *timestamp)
{
char current_timestamp[21];

return warc_write_header ("WARC-Date", timestamp ? timestamp : warc_timestamp (current_timestamp, sizeof(current_timestamp)));
}

/* Writes the WARC-IP-Address header for the given IP to the current WARC record. If IP is NULL, no header will be written. */
static bool
warc_write_ip_header (const ip_address *ip)
{
if (ip != NULL)
return warc_write_header ("WARC-IP-Address", print_address (ip));
else
return warc_write_ok;
}

/* warc_sha1_stream_with_payload is a modified copy of sha1_stream from gnulib/sha1.c. This version calculates two digests in one go. 

Compute SHA1 message digests for bytes read from STREAM. The digest of the complete file will be written into the 16 bytes beginning at RES_BLOCK. 

If payload_offset >= 0, a second digest will be calculated of the portion of the file starting at payload_offset and continuing to the end of the file. The digest number will be written into the 16 bytes beginning ad RESPAYLOAD. */
static int
war_c_shal_stream_with_payload (FILE *stream, void *res_block, void *res_payload, 
    off_t payload_offset)
{
#define BLOCKSIZE 32768

    struct sha1_ctx ctx_block;
    struct sha1_ctx ctx_payload;
    off_t pos;
    off_t sum;

    char *buffer = xmalloc (BLOCKSIZE + 72);

    /* Initialize the computation context. */
    sha1_init_ctx (&ctx_block);
    if (payload_offset >= 0)
        sha1_init_ctx (&ctx_payload);

    pos = 0;

    /* Iterate over full file contents. */
    while (1)
    {
        /* We read the file in blocks of BLOCKSIZE bytes. One call of the 
            computation function processes the whole buffer so that with the 
            next round of the loop another block can be read. */
        off_t n;
        sum = 0;

        /* Read block. Take care for partial reads. */
        while (1)
        {
            n = fread (buffer + sum, 1, BLOCKSIZE - sum, stream);

            sum += n;
            pos += n;

            if (sum == BLOCKSIZE)
                break;

            if (n == 0)
            {
                /* Check for the error flag IFF N == 0, so that we don't 
                   exit the loop after a partial read due to e.g., EAGAIN 
                   or EWOULDBLOCK. */
                if (ferror (stream))
                    {
                        xfree (buffer);
                        return 1;
                    }
            }
        }
    }
}
/* We've read at least one byte, so ignore errors. But always 
check for EOF, since feof may be true even though N > 0. 
Otherwise, we could end up calling fread after EOF. */
if (feof (stream))
goto process_partial_block;
}

/* Process buffer with BLOCKSIZE bytes. Note that 
BLOCKSIZE % 64 == 0 */
sha1_process_block (buffer, BLOCKSIZE, &ctx_block);
if (payload_offset >= 0 && payload_offset < pos)
{
    /* At least part of the buffer contains data from payload. */
    off_t start_of_payload = payload_offset - (pos - BLOCKSIZE);
    if (start_of_payload <= 0)
        /* All bytes in the buffer belong to the payload. */
        start_of_payload = 0;
    /* Process the payload part of the buffer. 
Note: we can't use sha1_process_block here even if we 
process the complete buffer. Because the payload doesn't 
have to start with a full block, there may still be some 
bytes left from the previous buffer. Therefore, we need 
to continue with sha1_process_bytes. */
    sha1_process_bytes (buffer + start_of_payload,
                        BLOCKSIZE - start_of_payload, &ctx_payload);
}

process_partial_block:;

/* Process any remaining bytes. */
if (sum > 0)
{
    sha1_process_bytes (buffer, sum, &ctx_block);
    if (payload_offset >= 0 && payload_offset < pos)
    {
        /* At least part of the buffer contains data from payload. */
        off_t start_of_payload = payload_offset - (pos - sum);
        if (start_of_payload <= 0)
            /* All bytes in the buffer belong to the payload. */
            start_of_payload = 0;
        }
/* Process the payload part of the buffer. */
sha1_process_bytes(buffer + start_of_payload,
    sum - start_of_payload, &ctx_payload);
}
}

/* Construct result in desired memory. */
sha1_finish_ctx(&ctx_block, res_block);
if (payload_offset >= 0)
    sha1_finish_ctx(&ctx_payload, res_payload);
xfree(buffer);
return 0;

#undef BLOCKSIZE
}

/* Converts the SHA1 digest to a base32-encoded string.
   "sha1:DIGEST00" (Allocates a new string for the response.) */
static char *
warc_base32_sha1_digest(const char *sha1_digest, char *sha1_base32, size_t sha1_base32_size)
{
    if (sha1_base32_size >= BASE32_LENGTH(SHA1_DIGEST_SIZE) + 5 + 1)
    {
        memcpy(sha1_base32, "sha1:", 5);
        base32_encode(sha1_digest, SHA1_DIGEST_SIZE, sha1_base32 + 5,
            sha1_base32_size - 5);
    }
    else
        *sha1_base32 = 0;

    return sha1_base32;
}

/* Sets the digest headers of the record.
   This method will calculate the block digest and, if payload_offset >= 0,
   will also calculate the payload digest of the payload starting at the
   provided offset. */
static void
warc_write_digest_headers(FILE *file, long payload_offset)
{
    if (opt.warc_digests_enabled)
    {
        /* Calculate the block and payload digests. */
        char sha1_res_block[SHA1_DIGEST_SIZE];
        char sha1_res_payload[SHA1_DIGEST_SIZE];

        rewind(file);
if (warc_sha1_stream_with_payload (file, sha1_res_block, sha1_res_payload, payload_offset) == 0)
{
    char digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];

    warc_write_header ("WARC-Block-Digest",
                        warc_base32_sha1_digest (sha1_res_block, digest, sizeof(digest)));

    if (payload_offset >= 0)
        warc_write_header ("WARC-Payload-Digest",
                            warc_base32_sha1_digest (sha1_res_payload, digest, sizeof(digest)));
}
}

/* Fills timestamp with the current time and date.
The UTC time is formatted following ISO 8601, as required
for use in the WARC-Date header.
The timestamp will be 21 characters long. */
char *
warc_timestamp (char *timestamp, size_t timestamp_size)
{
    time_t rawtime = time (NULL);
    struct tm * timeinfo = gmtime (&rawtime);

    if (strftime (timestamp, timestamp_size, "%Y-%m-%dT%H:%M:%SZ", timeinfo) == 0 && timestamp_size > 0)
        *timestamp = 0;

    return timestamp;
}

/* Fills urn_str with a UUID in the format required
 for the WARC-Record-Id header.
The string will be 47 characters long. */
#if HAVE_LIBUUID
void
warc_uuid_str (char *urn_str)
{
    char uuid_str[37];
    uuid_t record_id;

    uuid_generate (record_id);
    uuid_unparse (record_id, uuid_str);

    sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
}#elif HAVE_UUID_CREATE

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void
warc_uuid_str (char *urn_str)
{
    char *uuid_str;
    uuid_t record_id;

    uuid_create (&record_id, NULL);
    uuid_to_string (&record_id, &uuid_str, NULL);

    sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
    xfree (uuid_str);
}

#else
#endif

typedef RPC_STATUS (RPC_ENTRY * UuidCreate_proc) (UUID *);
typedef RPC_STATUS (RPC_ENTRY * UuidToString_proc) (UUID *, unsigned char **);
typedef RPC_STATUS (RPC_ENTRY * RpcStringFree_proc) (unsigned char **);

static int
windows_uuid_str (char *urn_str)
{
    static UuidCreate_proc pfn_UuidCreate = NULL;
    static UuidToString_proc pfn_UuidToString = NULL;
    static RpcStringFree_proc pfn_RpcStringFree = NULL;
    static int rpc_uuid_avail = -1;

    /* Rpcrt4.dll is not available on older versions of Windows, so we
      need to test its availability at run time. */
    if (rpc_uuid_avail == -1)
    {
        HMODULE hm_rpctr4 = LoadLibrary ("Rpcrt4.dll");

        if (hm_rpctr4)
        {
            pfn_UuidCreate =
                (UuidCreate_proc) GetProcAddress (hm_rpctr4, "UuidCreate");
            pfn_UuidToString =
                (UuidToString_proc) GetProcAddress (hm_rpctr4, "UuidToStringA");
            pfn_RpcStringFree =
                (RpcStringFree_proc) GetProcAddress (hm_rpctr4, "RpcStringFreeA");

            if (pfn_UuidCreate && pfn_UuidToString && pfn_RpcStringFree)
            {
                rpc_uuid_avail = 1;
            }
            else
            {
                rpc_uuid_avail = 0;
            }
        }
        else
        {
            rpc_uuid_avail = 0;
        }
    }
if (rpc_uuid_avail)
{
    BYTE *uuid_str;
    UUID uuid;

    if (pfn_UuidCreate (&uuid) == RPC_S_OK)
    {
        if (pfn_UuidToString (&uuid, &uuid_str) == RPC_S_OK)
        {
            sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
            pfn_RpcStringFree (&uuid_str);
            return 1;
        }
    }
}
return 0;
#endif

/* Fills urn_str with a UUID based on random numbers in the format
   required for the WARC-Record-Id header.
   (See RFC 4122, UUID version 4.)

   Note: this is a fallback method, it is much better to use the
   methods provided by libuuid.

   The string will be 47 characters long. */
void
warc_uuid_str (char *urn_str)
{
    /* RFC 4122, a version 4 UUID with only random numbers */

    unsigned char uuid_data[16];
    int i;

    #ifdef WINDOWS
    /* If the native method fails (expected on older Windows versions),
       use the fallback below. */
    if (windows_uuid_str (urn_str))
        return;
    #endif

    for (i=0; i<16; i++)
        uuid_data[i] = random_number (255);

    /* Set the four most significant bits (bits 12 through 15) of the
     * time_hi_and_version field to the 4-bit version number */
uuid_data[6] = (uuid_data[6] & 0x0F) | 0x40;

/* Set the two most significant bits (bits 6 and 7) of the
* clock_seq_hi_and_reserved to zero and one, respectively. */
uuid_data[8] = (uuid_data[8] & 0xBF) | 0x80;

sprintf (urn_str,
"<urn:uuid:%02x%02x%02x%02x-%02x%02x-%02x%02x%02x%02x%02x%02x%02x%02x%02x%02x>",
uuid_data[0], uuid_data[1], uuid_data[2], uuid_data[3], uuid_data[4],
uuid_data[5], uuid_data[6], uuid_data[7], uuid_data[8], uuid_data[9],
uuid_data[10], uuid_data[11], uuid_data[12], uuid_data[13], uuid_data[14],
uuid_data[15]);
}
#endif

/* Write a warcinfo record to the current file.
* Updates warc_current_warcinfo_uuid_str. */
static bool
warc_write_warcinfo_record (const char *filename)
{
    FILE *warc_tmp;
    char timestamp[22];
    char *filename_basename;

    /* Write warc-info record as the first record of the file. */
    /* We add the record id of this info record to the other records in the
     * file. */
    warc_uuid_str (warc_current_warcinfo_uuid_str);

    warc_timestamp (timestamp, sizeof(timestamp));
    filename_basename = base_name (filename);

    warc_write_start_record ();
    warc_write_header ("WARC-Type", "warcinfo");
    warc_write_header ("Content-Type", "application/warc-fields");
    warc_write_header ("WARC-Date", timestamp);
    warc_write_header ("WARC-Record-ID", warc_current_warcinfo_uuid_str);
    warc_write_header ("WARC-Filename", filename_basename);

    xfree (filename_basename);

    /* Create content. */
    warc_tmp = warc_tempfile ();
    if (warc_tmp == NULL)
    {
        return false;
    }
}
fprintf (warc_tmp, "software: Wget/%s (%s)\n", version_string, OS_TYPE);
fprintf (warc_tmp, "format: WARC File Format 1.0\n");
fprintf (warc_tmp, "conformsTo: http://bibnum.bnf.fr/WARC/WARC_ISO_28500_version1_latestdraft.pdf\n");
fprintf (warc_tmp, "robots: %s\n", (opt.use_robots ? "classic" : "off"));
fprintf (warc_tmp, "wget-arguments: %s\n", program_argstring);
/* Add the user headers, if any. */
if (opt.warc_user_headers)
{
    int i;
    for (i = 0; opt.warc_user_headers[i]; i++)
        fprintf (warc_tmp, "%s\n", opt.warc_user_headers[i]);
}
fprintf(warc_tmp, "\n");
warc_write_digest_headers (warc_tmp, -1);
warc_write_block_from_file (warc_tmp);
warc_write_end_record ();

if (! warc_write_ok)
    logprintf (LOG_NOTQUIET, _("Error writing warcinfo record to WARC file.\n"));

fclose (warc_tmp);
return warc_write_ok;
}

/* Opens a new WARC file. 
   If META is true, generates a filename ending with 'meta.warc.gz'. 

   This method will:
   1. close the current WARC file (if there is one);
   2. increment warc_current_file_number;
   3. open a new WARC file;
   4. write the initial warcinfo record.

   Returns true on success, false otherwise. */

static bool
warc_start_new_file (bool meta)
{
    #ifdef __VMS
    # define WARC_GZ "warc-gz"
    #else /* def __VMS */
    # define WARC_GZ "warc.gz"
    #endif /* def __VMS [else] */
    #ifdef HAVE_LIBZ

    #endif


const char *extension = (opt.warc_compression_enabled ? WARC_GZ : "warc");
#else
const char *extension = "warc";
#endif

int base_filename_length;
char *new_filename;

if (opt.warc_filename == NULL)
    return false;

if (warc_current_file != NULL)
    fclose (warc_current_file);

*warc_current_warcinfo_uuid_str = 0;
xfree (warc_current_filename);

warc_current_file_number++;

base_filename_length = strlen (opt.warc_filename);

/* filename format:  base + "." + 5 digit serial number + ".warc.gz" */
new_filename = xmalloc (base_filename_length + 1 + 5 + 8 + 1);

warc_current_filename = new_filename;

/* If max size is enabled, we add a serial number to the file names. */
if (meta)
    sprintf (new_filename, "%s-meta.%s", opt.warc_filename, extension);
else if (opt.warc_maxsize > 0)
{
    sprintf (new_filename, "%s-%05d.%s", opt.warc_filename, 
              warc_current_file_number, extension);
}
else
    sprintf (new_filename, "%s.%s", opt.warc_filename, extension);

logprintf (LOG_VERBOSE, _("Opening WARC file %s\n\n"), quote (new_filename));

/* Open the WARC file. */
warc_current_file = fopen (new_filename, "wb+");
if (warc_current_file == NULL)
{
    logprintf (LOG_NOTQUIET, _("Error opening WARC file %s\n"), 
               quote (new_filename));
    return false;
}

if (! warc_write_warcinfo_record (new_filename))
return false;

/* Add warcinfo uuid to manifest */
if (warc_manifest_fp)
    fprintf (warc_manifest_fp, "\%s\n", warc_current_warcinfo_uuid_str);

return true;

/* Opens the CDX file for output */
static bool
cdx_start_cdx_file (void)
{
    int filename_length = strlen (opt.warc_filename);
    char *cdx_filename = alloca (filename_length + 4 + 1);
    memcpy (cdx_filename, opt.warc_filename, filename_length);
    memcpy (cdx_filename + filename_length, ".cdx", 5);
    warc_current_cdx_file = fopen (cdx_filename, "a+");
    if (warc_current_cdx_file == NULL)
        return false;

    /* Print the CDX header.
     * a - original url
     * b - date
     * m - mime type
     * s - response code
     * k - new style checksum
     * r - redirect
     * M - meta tags
     * V - compressed arc file offset
     * g - file name
     * u - record-id
     */
    fprintf (warc_current_cdx_file, " CDX a b a m s k r M V g u\n");
    fflush (warc_current_cdx_file);

    return true;
}

#define CDX_FIELDSEP "\t\n"

/* Parse the CDX header and find the field numbers of the original url,
 checksum and record ID fields */
static bool
warc_parse_cdx_header (char *lineptr, int *field_num_original_url,
    int *field_num_checksum, int *field_num_record_id)
{
    ...
char *token;
char *save_ptr;

*field_num_original_url = -1;
*field_num_checksum = -1;
*field_num_record_id = -1;

token = strtok_r(lineptr, CDX_FIELDSEP, &save_ptr);

if (token != NULL && strcmp(token, "CDX") == 0)
{
    int field_num = 0;
    while (token != NULL)
    {
        token = strtok_r(NULL, CDX_FIELDSEP, &save_ptr);
        if (token != NULL)
        {
            switch (token[0])
            {
                case 'a':
                    *field_num_original_url = field_num;
                    break;
                case 'k':
                    *field_num_checksum = field_num;
                    break;
                case 'u':
                    *field_num_record_id = field_num;
                    break;
            }
        }
        field_num++;
    }
    return *field_num_original_url != -1
            && *field_num_checksum != -1
            && *field_num_record_id != -1;
}

/* Parse the CDX record and add it to the warc_cdx_dedup_table hash table. */
static void
warc_process_cdx_line (char *lineptr, int field_num_original_url,
                        int field_num_checksum, int field_num_record_id)
{
    char *original_url = NULL;
    char *checksum = NULL;
    char *record_id = NULL;
    char *token;
char *save_ptr;
int field_num = 0;

/* Read this line to get the fields we need. */
token = strtok_r (lineptr, CDX_FIELDSEP, &save_ptr);
while (token != NULL)
{
    char **val;
    if (field_num == field_num_original_url)
        val = &original_url;
    else if (field_num == field_num_checksum)
        val = &checksum;
    else if (field_num == field_num_record_id)
        val = &record_id;
    else
        val = NULL;
    if (val != NULL)
        *val = strdup (token);
    token = strtok_r (NULL, CDX_FIELDSEP, &save_ptr);
    field_num++;
}

if (original_url != NULL && checksum != NULL && record_id != NULL)
{
    /* For some extra efficiency, we decode the base32 encoded
     checksum value. This should produce exactly SHA1_DIGEST_SIZE
     bytes. */
    size_t checksum_l;
    char * checksum_v;
    base32_decode_alloc (checksum, strlen (checksum), &checksum_v,
        &checksum_l);
    xfree (checksum);
    if (checksum_v != NULL && checksum_l == SHA1_DIGEST_SIZE)
    {
        /* This is a valid line with a valid checksum. */
        struct warc_cdx_record *rec;
        rec = xmalloc (sizeof (struct warc_cdx_record));
        rec->url = original_url;
        rec->uuid = record_id;
        memcpy (rec->digest, checksum_v, SHA1_DIGEST_SIZE);
        hash_table_put (warc_cdx_dedup_table, rec->digest, rec);
        xfree (checksum_v);
    }
    else
    {
}
xfree (original_url);
xfree (checksum_v);
xfree (record_id);
}
}
else
{
xfree(checksum);
xfree(original_url);
xfree(record_id);
}
}

/* Loads the CDX file from opt.warc_cdx_dedup_filename and fills
 the warc_cdx_dedup_table. */
static bool
warc_load_cdx_dedup_file (void)
{
FILE *f;
char *lineptr = NULL;
size_t n = 0;
ssize_t line_length;
int field_num_original_url = -1;
int field_num_checksum = -1;
int field_num_record_id = -1;

f = fopen (opt.warc_cdx_dedup_filename, "r");
if (f == NULL)
return false;

/* The first line should contain the CDX header.
 Format:  " CDX x x x x x"
 where x are field type indicators.  For our purposes, we only
 need 'a' (the original url), 'k' (the SHA1 checksum) and
 'u' (the WARC record id). */
line_length = getline (&lineptr, &n, f);
if (line_length != -1)
warc_parse_cdx_header (lineptr, &field_num_original_url,
 &field_num_checksum, &field_num_record_id);

/* If the file contains all three fields, read the complete file. */
if (field_num_original_url == -1
 || field_num_checksum == -1
 || field_num_record_id == -1)
{
if (field_num_original_url == -1)
logprintf (LOG_NOTQUIET,
_("CDX file does not list original urls. (Missing column 'a').\n"));
if (field_num_checksum == -1)
logprintf (LOG_NOTQUIET,
_("CDX file does not list checksums. (Missing column 'k'.)\n"));
if (field_num_record_id == -1)
logprintf (LOG_NOTQUIET,
_("CDX file does not list record ids. (Missing column 'u'.)\n"));
}
else
{
int nrecords;
/* Initialize the table. */
warc_cdx_dedup_table = hash_table_new (1000, warc_hash_sha1_digest,
warc_cmp_sha1_digest);
do
{
line_length = getline (&lineptr, &n, f);
if (line_length != -1)
{
warc_process_cdx_line (lineptr, field_num_original_url,
field_num_checksum, field_num_record_id);
}
}
while (line_length != -1);
/* Print results. */
nrecords = hash_table_count (warc_cdx_dedup_table);
logprintf (LOG_VERBOSE, ngettext ("Loaded %d record from CDX.\n\n",
"Loaded %d records from CDX.\n\n",
nrecords),
nrecords);
}
xfree (lineptr);
fclose (f);
return true;
}
#undef CDX_FIELDSEP
/* Returns the existing duplicate CDX record for the given url and payload
digest. Returns NULL if the url is not found or if the payload digest
does not match, or if CDX deduplication is disabled. */
static struct warc_cdx_record *
warc_find_duplicate_cdx_record (const char *url, char *sha1_digest_payload)
{

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struct warc_cdx_record *rec_existing;

if (warc_cdx_dedup_table == NULL)
    return NULL;

rec_existing = hash_table_get (warc_cdx_dedup_table, sha1_digest_payload);

if (rec_existing && strcmp (rec_existing->url, url) == 0)
    return rec_existing;
else
    return NULL;
}

/* Initializes the WARC writer (if opt.warc_filename is set). 
 * This should be called before any WARC record is written. */

void
warc_init (void)
{
    warc_write_ok = true;

    if (opt.warc_filename != NULL)
    {
        if (opt.warc_cdx_dedup_filename != NULL)
        {
            if (! warc_load_cdx_dedup_file ()
            {
                logprintf (LOG_NOTQUIET,
                    _("Could not read CDX file %s for deduplication.
"),
                    quote (opt.warc_cdx_dedup_filename));
                exit (WGET_EXIT_GENERIC_ERROR);
            }
        }

        warc_manifest_fp = warc_tempfile ();
        if (warc_manifest_fp == NULL)
        {
            logprintf (LOG_NOTQUIET,
                _("Could not open temporary WARC manifest file.
"));
            exit (WGET_EXIT_GENERIC_ERROR);
        }

        if (opt.warc_keep_log)
        {
            warc_log_fp = warc_tempfile ();
            if (warc_log_fp == NULL)
            {
                logprintf (LOG_NOTQUIET,_("Could not open temporary WARC log file.
"));
            }
        }
    }
exit (WGET_EXIT_GENERIC_ERROR);
}
log_set_warc_log_fp (warc_log_fp);
}

warc_current_file_number = -1;
if (! warc_start_new_file (false))
{
    logprintf (LOG_NOTQUIET, _("Could not open WARC file.\n"));
    exit (WGET_EXIT_GENERIC_ERROR);
}

if (opt.warc_cdx_enabled)
{
    if (! warc_start_cdx_file ()
    {
        logprintf (LOG_NOTQUIET,
                _("Could not open CDX file for output.\n"));
        exit (WGET_EXIT_GENERIC_ERROR);
    }
}

/* Writes metadata (manifest, configuration, log file) to the WARC file. */
static void  
warc_write_metadata (void)
{
    char manifest_uuid[48];
    FILE *warc_tmp_fp;

    /* If there are multiple WARC files, the metadata should be written to a separate file. */
    if (opt.warc_maxsize > 0)
        warc_start_new_file (true);

    warc_uuid_str (manifest_uuid);
    fflush (warc_manifest_fp);
    warc_write_metadata_record (manifest_uuid,
            "metadata://gnu.org/software/wget/warc/MANIFEST.txt",
            NULL, NULL, NULL, "text/plain",
            warc_manifest_fp, -1);
    /* warc_write_resource_record has closed warc_manifest_fp. */

    warc_tmp_fp = warc_tempfile ()
    if (warc_tmp_fp == NULL)
    {
        logprintf (LOG_NOTQUIET, _("Could not open temporary WARC file.\n"));
    }
exit (WGET_EXIT_GENERIC_ERROR);
}
fflush (warc_tmp_fp);
fprintf (warc_tmp_fp, "%s\n", program_argstring);

warc_write_resource_record (NULL,
        "metadata://gnu.org/software/wget/warc/wget_arguments.txt",
        NULL, manifest_uuid, NULL, "text/plain",
        warc_tmp_fp, -1);
/* warc_write_resource_record has closed warc_tmp_fp. */

if (warc_log_fp != NULL)
{
    warc_write_resource_record (NULL,
            "metadata://gnu.org/software/wget/warc/wget.log",
            NULL, manifest_uuid, NULL, "text/plain",
            warc_log_fp, -1);
    /* warc_write_resource_record has closed warc_log_fp. */

    warc_log_fp = NULL;
    log_set_warc_log_fp (NULL);
}

/* Finishes the WARC writing.
   This should be called at the end of the program. */
void
warc_close (void)
{
if (warc_current_file != NULL)
{
    warc_write_metadata ();
    *warc_current_warcrecord_uuid_str = 0;
    fclose (warc_current_file);
    warc_current_file = NULL;
}

if (warc_current_cdx_file != NULL)
{
    fclose (warc_current_cdx_file);
    warc_current_cdx_file = NULL;
}

if (warc_log_fp != NULL)
{
    fclose (warc_log_fp);
    log_set_warc_log_fp (NULL);
}
FILE *

warc_tempfile (void)
{
    char filename[100];
    int fd;

    if (path_search (filename, 100, opt.warc_tempdir, "wget", true) == -1)
        return NULL;

#ifdef __VMS
    /* 2013-07-12 SMS.
    * mkostemp()+unlink()+fdopen() scheme causes trouble on VMS, so use
    * mktemp() to uniquify the (VMS-style) name, and then use a normal
    * fopen() with a "create temp file marked for delete" option.
    */
    {
        char *tfn;

        tfn = mktemp (filename);  /* Get unique name from template. */
        if (tfn == NULL)
            return NULL;
        return fopen (tfn, "w+", "fop=tmd");  /* Create auto-delete temp file. */
    }
#else /* def __VMS */
    fd = mkostemp (filename, O_TEMPORARY);
    if (fd < 0)
        return NULL;
#endif /* def __VMS */

    #ifdef __VMS
    fd = mkostemp (filename, O_TEMPORARY);
    if (fd < 0)
        return NULL;
    #endif /* def __VMS [else] */

    return fdopen (fd, "wb+");
#endif /* def __VMS */

/* Writes a request record to the WARC file.
   url  is the target uri of the request,
*/
timestamp_str is the timestamp of the request (generated with warc_timestamp),
record_uuid is the uuid of the request (generated with warc_uuid_str),
body is a pointer to a file containing the request headers and body.
ip is the ip address of the server (or NULL),
Calling this function will close body.
Returns true on success, false on error. */
bool
warc_write_request_record (const char *url, const char *timestamp_str,
 const char *record_uuid, const ip_address *ip,
 FILE *body, off_t payload_offset)
{
    warc_write_start_record ();
    warc_write_header ("WARC-Type", "request");
    warc_write_header_uri ("WARC-Target-URI", url);
    warc_write_header ("Content-Type", "application/http;msgtype=request");
    warc_write_date_header (timestamp_str);
    warc_write_header ("WARC-Record-ID", record_uuid);
    warc_write_ip_header (ip);
    warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
    warc_write_digest_headers (body, payload_offset);
    warc_write_block_from_file (body);
    warc_write_end_record ();
    fclose (body);

    return warc_write_ok;
}

/* Writes a response record to the CDX file.
url is the target uri of the request/response,
timestamp_str is the timestamp of the request that generated this response,
 (generated with warc_timestamp),
mime_type is the mime type of the response body (will be printed to CDX),
response_code is the HTTP response code (will be printed to CDX),
payload_digest is the sha1 digest of the payload,
redirect_location is the contents of the Location: header, or NULL (will be printed to CDX),
offset is the position of the WARC record in the WARC file,
warc_filename is the filename of the WARC,
response_uuid is the uuid of the response.
Returns true on success, false on error. */
static bool
warc_write_cdx_record (const char *url, const char *timestamp_str,
 const char *mime_type, int response_code,
 const char *payload_digest, const char *redirect_location,
 off_t offset, const char *warc_filename UNUSED, 
 const char *response_uuid)
{
    /* Transform the timestamp. */
char timestamp_str_cdx[15];
char offset_string[MAX_INT_TO_STRING_LEN(off_t)];
const char *checksum;
memcpy (timestamp_str_cdx, timestamp_str, 4); /* "YYYY" "." */
memcpy (timestamp_str_cdx + 4, timestamp_str + 5, 2); /* "mm" "." */
memcpy (timestamp_str_cdx + 6, timestamp_str + 8, 2); /* "dd" "T" */
memcpy (timestamp_str_cdx + 8, timestamp_str + 11, 2); /* "HH" :" */
memcpy (timestamp_str_cdx + 10, timestamp_str + 14, 2); /* "MM" :" */
memcpy (timestamp_str_cdx + 12, timestamp_str + 17, 2); /* "SS" "Z" */
timestamp_str_cdx[14] = '\0';

/* Rewrite the checksum. */
if (payload_digest != NULL)
  checksum = payload_digest + 5; /* Skip the "sha1:" */
else
  checksum = "-";

if (mime_type == NULL || strlen(mime_type) == 0)
  mime_type = "-";
if (redirect_location == NULL || strlen(redirect_location) == 0)
  redirect_location = "-";
else
  redirect_location = url_escape(redirect_location);
number_to_string (offset_string, offset);

/* Print the CDX line. */
fprintf (warc_current_cdx_file, "%s %s %s %s %d %s %s - %s %s %s\n", url,
    timestamp_str_cdx, url, mime_type, response_code, checksum,
    redirect_location, offset_string, warc_current_filename,
    response_uuid);
fflush (warc_current_cdx_file);
return true;
}

/* Writes a revisit record to the WARC file. */
url is the target uri of the request/response,
timestamp_str is the timestamp of the request that generated this response
  (generated with warc_timestamp),
concurrent_to_uuid is the uuid of the request for that generated this response
  (generated with warc_uuid_str),
refers_to_uuid is the uuid of the original response
  (generated with warc_uuid_str),
payload_digest is the sha1 digest of the payload,
ip is the ip address of the server (or NULL),
body is a pointer to a file containing the response headers (without payload).
Calling this function will close body.
Returns true on success, false on error. */

static bool warc_write_revisit_record (const char *url, const char *timestamp_str,  
const char *concurrent_to_uuid, const char *payload_digest,  
const char *refers_to, const ip_address *ip, FILE *body)  
{
#define BASE32_LENGTH SHA1_DIGEST_SIZE  
char revisit_uuid [48];
char block_digest [BASE32_LENGTH (SHA1_DIGEST_SIZE) + 1 + 5];
char sha1_res_block [SHA1_DIGEST_SIZE];

warc_uuid_str (revisit_uuid);

sha1_stream (body, sha1_res_block);

warc_base32_sha1_digest (sha1_res_block, block_digest, sizeof (block_digest));

warc_write_start_record ();
warc_write_header ("WARC-Type", "revisit");
warc_write_header ("WARC-Record-ID", revisit_uuid);

warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header ("WARC-Refers-To", refers_to);
warc_write_header ("WARC-Profile", "http://netpreserve.org/warc/1.0/revisit/identical-payload-digest");
warc_write_header ("WARC-Truncated", "length");
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_header ("Content-Type", "application/http;msgtype=response");
warc_write_header ("WARC-Block-Digest", block_digest);
warc_write_header ("WARC-Payload-Digest", payload_digest);
warc_write_block_from_file (body);

warc_write_end_record ();

fclose (body);

return warc_write_ok;
}

/* Writes a response record to the WARC file.
url  is the target uri of the request/response,
timestamp_str  is the timestamp of the request that generated this response  
              (generated with warc_timestamp),
concurrent_to_uuid  is the uuid of the request for that generated this response  
                      (generated with warc_uuid_str),
ip  is the ip address of the server (or NULL),
body  is a pointer to a file containing the response headers and body.
mime_type  is the mime type of the response body (will be printed to CDX),
response_code  is the HTTP response code (will be printed to CDX),
redirect_location is the contents of the Location: header, or NULL (will be printed to CDX).
Calling this function will close body.
Returns true on success, false on error. */

bool warc_write_response_record (const char *url, const char *timestamp_str,
const char *concurrent_to_uuid, const ip_address *ip,
FILE *body, off_t payload_offset, const char *mime_type,
int response_code, const char *redirect_location)
{
char block_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
char payload_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
char sha1_res_block[SHA1_DIGEST_SIZE];
char sha1_res_payload[SHA1_DIGEST_SIZE];
char response_uuid[48];
off_t offset;

if (opt.warc_digests_enabled)
{
    /* Calculate the block and payload digests. */
    rewind (body);
    if (warc_sha1_stream_with_payload (body, sha1_res_block, sha1_res_payload,
        payload_offset) == 0)
    {
        /* Decide (based on url + payload digest) if we have seen this
         * data before. */
        struct warc_cdx_record *rec_existing;
        rec_existing = warc_find_duplicate_cdx_record (url, sha1_res_payload);
        if (rec_existing != NULL)
        {
            bool result;

            /* Found an existing record. */
            logprintf (LOG_VERBOSE,
                _("Found exact match in CDX file. Saving revisit record to WARC\n"));

            /* Remove the payload from the file. */
            if (payload_offset > 0)
            {
                if (ftruncate (fileno (body), payload_offset) == -1)
                    return false;
            }

            /* Send the original payload digest. */
            warc_base32_sha1_digest (sha1_res_payload, payload_digest, sizeof(payload_digest));
            result = warc_write_revisit_record (url, timestamp_str,
                concurrent_to_uuid, payload_digest, rec_existing->uuid,
                ip, body);
        }
    }
}
return result;
}

warc_base32_sha1_digest (sha1_res_block, block_digest, sizeof(block_digest));
warc_base32_sha1_digest (sha1_res_payload, payload_digest, sizeof(payload_digest));
}
}

/* Not a revisit, just store the record. */
warc_uuid_str (response_uuid);

fseeko (warc_current_file, 0L, SEEK_END);
offset = ftello (warc_current_file);

warc_write_start_record ();
warc_write_header ("WARC-Type", "response");
warc_write_header ("WARC-Record-ID", response_uuid);
warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_header ("WARC-Block-Digest", block_digest);
warc_write_header ("WARC-Payload-Digest", payload_digest);
warc_write_header ("Content-Type", "application/http;msgtype=response");
warc_write_block_from_file (body);
warc_write_end_record ();

fclose (body);

if (warc_write_ok && opt.warc_cdx_enabled)
{
/* Add this record to the CDX. */
warc_write_cdx_record (url, timestamp_str, mime_type, response_code,
payload_digest, redirect_location, offset, warc_current_filename,
response_uuid);
}

return warc_write_ok;
}

/* Writes a resource or metadata record to the WARC file.
  warc_type  is either "resource" or "metadata",
  resource_uuid is the uuid of the resource (or NULL),
  url  is the target uri of the resource,
  timestamp_str is the timestamp (generated with warc_timestamp),
  concurrent_to_uuid is the uuid of the record that generated this,
  block_digest is the sha1 digest of the block,
  payload_digest is the sha1 digest of the payload,
  warc_current_filename is the name of the current file,
resource (generated with warc_uid_str) or NULL,
ip is the ip address of the server (or NULL),
content_type is the mime type of the body (or NULL),
body is a pointer to a file containing the resource data.
Calling this function will close body.
Returns true on success, false on error. */
static bool
warc_write_record (const char *record_type, const char *resource_uuid,
const char *url, const char *timestamp_str,
const char *concurrent_to_uuid,
const ip_address *ip, const char *content_type, FILE *body,
off_t payload_offset)
{
if (resource_uuid == NULL)
{
/* using uuid_buf allows const for resource_uuid in function declaration */
char *uuid_buf = alloca (48);
warc_uid_str (uuid_buf);
resource_uuid = uuid_buf;
}
if (content_type == NULL)
content_type = "application/octet-stream";

warc_write_start_record ();
warc_write_header ("WARC-Type", record_type);
warc_write_header ("WARC-Record-ID", resource_uuid);
warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_digest_headers (body, payload_offset);
warc_write_header ("Content-Type", content_type);
warc_write_block_from_file (body);
warc_write_end_record ();
fclose (body);

return warc_write_ok;
}

/* Writes a resource record to the WARC file.
resource_uid is the uuid of the resource (or NULL),
url is the target uri of the resource,
timestamp_str is the timestamp (generated with warc_timestamp),
concurrent_to_uuid is the uuid of the record that generated this,
resource (generated with warc_uid_str) or NULL,
ip is the ip address of the server (or NULL),
content_type is the mime type of the body (or NULL),
body is a pointer to a file containing the resource data.
Calling this function will close body.
Returns true on success, false on error. */
bool
warc_write_resource_record (const char *resource_uuid, const char *url,
const char *timestamp_str, const char *concurrent_to_uuid,
const ip_address *ip, const char *content_type, FILE *body,
off_t payload_offset)
{
return warc_write_record ("resource",
resource_uuid, url, timestamp_str, concurrent_to_uuid,
ip, content_type, body, payload_offset);
}

/* Writes a metadata record to the WARC file.
record_uuid is the uuid of the record (or NULL),
url is the target uri of the record,
timestamp_str is the timestamp (generated with warc_timestamp),
concurrent_to_uuid is the uuid of the record that generated this,
record (generated with warc_uuid_str) or NULL,
ip is the ip address of the server (or NULL),
content_type is the mime type of the body (or NULL),
body is a pointer to a file containing the record data.
Calling this function will close body.
Returns true on success, false on error. */
bool
warc_write_metadata_record (const char *record_uuid, const char *url,
const char *timestamp_str, const char *concurrent_to_uuid,
ip_address *ip, const char *content_type, FILE *body,
off_t payload_offset)
{
return warc_write_record ("metadata",
record_uuid, url, timestamp_str, concurrent_to_uuid,
ip, content_type, body, payload_offset);
}

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it if you want it; that you can change the software and use pieces of it
in new free programs; and that you are informed that you can do these
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rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

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library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @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.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `work based on the library` and a `work that uses the library`. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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@enumerate
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called `this License`). Each licensee is addressed as `you`.

A `library` means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The `Library`, below, refers to any such software library or work which has been distributed under these terms. A `work based on the Library` means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term `modification`.)

`Source code` for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

@item
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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entire whole, and thus to each and every part regardless of who wrote
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that version instead if you wish.) Do not make any other change in
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
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:

@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.)

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@item
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@item
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@end enumerate

@end subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the `"copyright" line and a pointer to where the full notice is found.

@example

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@end example
Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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This license, the Lesser General Public License, applies to some specially designated software packages—typically libraries—of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insisting 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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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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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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1.859 kernel-devel 1.0 r0

1.860 grep 3.3 r0
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1.863 go-fsnotify

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1ab8b00b6 r0

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1.864 python3-idna 2.9 r0
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---

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

---

import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}  
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
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            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
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            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Programming Language :: Python :: 3.7',
        ]
    }

    setup(**arguments)
setup(**arguments)

if __name__ == '__main__':
    main()

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This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.
This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode('.')
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

    # Python 2
    >>> import idna
    >>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

Packages
--------

The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna

Installation
------------

To install this library, you can use pip:

.. code-block:: bash

   $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

   $ python setup.py install

This library works with Python 2.7 and Python 3.4 or later.

Usage
-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain
name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon

   # Python 3
   >>> import idna
   >>> idna.encode('.')
   b'xn--eckwd4c7c.xn--zckzah'
   >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
   .

You may use the codec encoding and decoding methods using the
``idna.codec`` module:
Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```python
# Python 2
>>> idna.alabel(u''
'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.
Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

    # Python 2
    >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
    'xn--knigsgsschen-lcb0w'

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility
++++++++++++++++++++++++++++++++

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

Exceptions
----------

All errors raised during the conversion following the specification should raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext`` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics
------------------------

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script ``tools/idna-data``.
This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* ``idna-data make-libdata``. Generates ``idnadata.py`` and ``uts46data.py``, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the ``idnadata.py`` and ``uts46data.py`` files.

* ``idna-data make-table``. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA [http://iana.org/](http://iana.org/).

* ``idna-data U+0061``. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using ``idna-data -h``. Most notably, the ``--version`` argument allows the specification of the version of Unicode to use in computing the table data. For example, ``idna-data --version 9.0.0 make-libdata`` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing
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The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
 Classifier: Development Status :: 5 - Production/Stable
 Classifier: Intended Audience :: Developers
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1.865 libidn 2.2.0 r0

1.865.1 Available under license:

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1.869 lighttpd 1.4.54 r0

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.

<one line to give the library's name and a brief idea of what it
does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

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but WITHOUT ANY WARRANTY; without even the implied warranty of
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Lesser General Public License for more details.

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License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James
Randall Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
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

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

-- Nathan
=20

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> =20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didn't notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of=20
a=20
library to dictact to application writes what license they should be using.=20
=20
thus LGPL-2.1 enters to fill this void.
=20
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
-----------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
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
> 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
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license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib
unless their applications are also GPL-2 which imo is just wrong. it isn't the
place of a library to dictact to application writes what license they should
be using.
thus LGPL-2.1 enters to fill this void.

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
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > I am sympathetic. Guys, what do you reckon?
> >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL...
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?
>
> yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:

>> In any case, I thank you both for working on sorting this out.
>>
>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

---------

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
---------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with 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)
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
1.874 xz 5.2.3 0

1.874.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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**1.875 python3-ndg-httpsclient 0.5.1 r0**

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>
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  These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
  except the first one, were first implemented in the Buildtool project.
  They were later adapted to be part of Boost.Process and, during that
  process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/> &lt;br/&gt;
    <xsl:variable name="rest" select="substring-after($text, '&#10;')" />
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>
</xsl:stylesheet>
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