Open Source Used In HyperFlex HX Data Platform 5.0(1a)

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1.3 jersey-client 1.19.3

1.4 nfs-utils 1.3.4-2.1ubuntu5.5

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// This file was generated by gir (https://github.com/gtk-rs/gir)
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use gio_sys;
use glib;
use glib::object::Cast;
use glib::object::IsA;
use glib::signal::connect_raw;
use glib::signal::SignalHandlerId;
use glib::translate::*;
use glib_sys;
use gobject_sys;
use std::boxed::Box as Box_;
use std::fmt;
use std::mem::transmute;
use std::pin::Pin;
use std::ptr;
use Cancellable;

glib_wrapper! {
    pub struct Permission(Object<gio_sys::GPermission, gio_sys::GPermissionClass, PermissionClass>);

    match fn {
        get_type => || gio_sys::g_permission_get_type(),
    }
}

pub const NONE_PERMISSION: Option<&Permission> = None;

pub trait PermissionExt: 'static {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    );

    fn acquire_async_future(
        &self,
    ) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

    fn get_allowed(&self) -> bool;

    fn get_can_acquire(&self) -> bool;

    fn get_can_release(&self) -> bool;

    fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool);

    fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

    fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    );

    fn release_async_future(
        &self,
    ) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;
fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

impl<O: IsA<Permission>> PermissionExt for O {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
        unsafe {
            let mut error = ptr::null_mut();
            let _ = gio_sys::g_permission_acquire(
                self.as_ref().to_glib_none().0,
                cancellable.map(|p| p.as_ref().to_glib_none()).0,
                &mut error,
            );
            if error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            }
        }
    }
}

fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box_<Q> = Box::<Q>::new(callback);
    unsafe extern "C" fn acquire_async_trampoline<
        Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
        >(
        _source_object: *mut gio_sys::GObject,
        res: *mut gio_sys::GAsyncResult,
        user_data: glib_sys::gpointer,
    ) {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        };
        let callback: Box_<Q> = Box::<Q>::from_raw(user_data as *mut _);
        callback(result);
    }
    let callback = acquire_async_trampoline::<Q>;
unsafe {
    gio_sys::g_permission_acquire_async(
        self.as_ref().to_glib_none().0,
        cancellable.map(|p| p.as_ref()).to_glib_none().0,
        Some(callback),
        Box::_::into_raw(user_data) as *mut _,
    );
}
}

fn acquire_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box::_::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.acquire_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });

        cancellable
    }));
}

fn get_allowed(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_allowed(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn get_can_acquire(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_acquire(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn get_can_release(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_release(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool) {
unsafe {
    gio_sys::g_permission_impl_update(
        self.as_ref().to_glib_none().0,
        allowed.to_glib(),
        can_acquire.to_glib(),
        can_release.to_glib(),
    );
}

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
    unsafe {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            &mut error,
        );
        if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        }
    }
}

fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box_<Q> = Box_::new(callback);
    unsafe extern "C" fn release_async_trampoline<
        Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
        >(
        _source_object: *mut gobject_sys::GObject,
        res: *mut gio_sys::GAsyncResult,
        user_data: glib_sys::gpointer,
    ) {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        };  
        let callback: Box_<Q> = Box_::from_raw(user_data as *mut _);
        callback(result);
let callback = release_async_trampoline::<Q>;
unsafe {
    gio_sys::g_permission_release_async(
        self.as_ref().to_glib_none().0,
        cancellable.map(|p| p.as_ref()).to_glib_none().0,
        Some(callback),
        Box::into_raw(user_data) as *mut _,
    );
}

fn release_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.release_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });
        cancellable
    }));
}

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
unsafe extern "C" fn notify_allowed_trampoline<P, F: Fn(&P) + 'static>(
    this: *mut gio_sys::GPermission,
    _param_spec: glib_sys::gpointer,
    f: glib_sys::gpointer,
) where
    P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }
unsafe {
    let f: Box<_<F> = Box::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::allowed0".as_ptr() as *const _,
        Some(transmute(notify_allowed_trampoline::<Self, F> as usize)),
        Box::into_raw(f),
    )
}
}

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {

unsafe extern "C" fn notify_can_acquire_trampoline<P, F: Fn(&P) + 'static>(
    this: *mut gio_sys::GPermission,
    _param_spec: glib_sys::gpointer,
    f: glib_sys::gpointer,
) where
    P: IsA<Permission>,
{
    let f: &F = &*(f as *const F);
    f(&Permission::from_glib_borrow(this).unsafe_cast())
}

unsafe {
    let f: Box_<F> = Box_::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::can-acquire\0".as_ptr() as *const _,
        Some(transmute(notify_can_acquire_trampoline::<Self, F> as usize)),
        Box_::into_raw(f),
    )
}

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_can_release_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }
    unsafe {
        let f: Box_<F> = Box_::new(f);
        connect_raw(
            self.as_ptr() as *mut _,
            b"notify::can-release\0".as_ptr() as *const _,
            Some(transmute(notify_can_release_trampoline::<Self, F> as usize)),
            Box_::into_raw(f),
        )
    }
}

impl fmt::Display for Permission {
    fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
        write!(f, "Permission")
    }
}
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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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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
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Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30–44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.
ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.8 berkeley-db 5.3.28-11
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1.14 mgo r2020.11.24

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* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/j2ee_web_services_client_1_1.xsd
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/j2ee_web_services_1_1.xsd
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es.javax.servlet.jsp.resources
Bundle-Name: Servlet Specification API
Bundle-Description: Servlet Specification API
Bundle-DocURL: http://www.mortbay.com
Originally-Created-By: 1.5.0_13 (Sun Microsystems Inc.)
Bundle-Vendor: Mort Bay Consulting
Bundle-ManifestVersion: 2
Bundle-SymbolicName: org.mortbay.jetty.servlet-api
Tool: Bnd-0.0.238
Implementation-Vendor: JCP

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jseward@bzip.org
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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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1.25 zlib 1.2.8.dfsg-2ubuntu4.1

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1.27 ncurses 6.0

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Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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```bash
-- vile: :txtmode file-encoding=utf-8
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>
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This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- $Id: COPYING,v 1.3 2015/01/03 20:12:01 tom Exp$

1.28 rsync 3.1.1 3ubuntu1
1.28.1 Available under license:

This is Debian's prepackaged version of Andrew Tridgell and Paul Mackerras' rsync utility.

This package provides the rsync program, which is a replacement for rcp that uses the rsync algorithm to transfer only the differences between two sets of files.

This package was put together by Philip Hands <phil@hands.com>, from sources obtained from:
http://rsync.samba.org/ftp/rsync/rsync-2.5.4.tar.gz
The current version was downloaded from:
http://rsync.samba.org/ftp/rsync/src/rsync-3.1.0.tar.gz
on 2013-09-30 by Paul Slootman <paul@debian.org>.

The changes were very minimal - merely adding support for the Debian package maintenance scheme by adding various debian/* files.
The only significant change is passing the -4 / -6 options through to ssh.
See the debian/patches/ directory.

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1.31 go-zookeeper
7117e9ea24146db92d453f4dbf1fd9ba1e26298
9

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* /opt/cola/permits/1183569501_1627428110.01/0(hdrhistogram-2.1.11-sources-7.jar)/org/HdrHistogram/ShortCountsHistogram.java
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* /opt/cola/permits/1183569501_1627428110.01/0(hdrhistogram-2.1.11-sources-7.jar)/org/HdrHistogram/Base64Helper.java
* /opt/cola/permits/1183569501_1627428110.01/0(hdrhistogram-2.1.11-sources-7.jar)/org/HdrHistogram/HistogramLogScanner.java
* /opt/cola/permits/1183569501_1627428110.01/0(hdrhistogram-2.1.11-sources-7.jar)/org/HdrHistogram/DoubleAllValuesIterator.java
* /opt/cola/permits/1183569501_1627428110.01/0(hdrhistogram-2.1.11-sources-7.jar)/org/HdrHistogram/Recorder.java
* /opt/cola/permits/1183569501_1627428110.01/0(hdrhistogram-2.1.11-sources-7.jar)/org/HdrHistogram/AtomicHistogram.java
* /opt/cola/permits/1183569501_1627428110.01/0(hdrhistogram-2.1.11-sources-7.jar)/org/HdrHistogram/ZigZagEncoding.java
* /opt/cola/permits/1183569501_1627428110.01/0(hdrhistogram-2.1.11-sources-7.jar)/org/HdrHistogram/SynchronizedHistogram.java
* /opt/cola/permits/1183569501_1627428110.01/0(hdrhistogram-2.1.11-sources-7.jar)/org/HdrHistogram/DoubleRecorder.java
* /opt/cola/permits/1183569501_1627428110.01/0(hdrhistogram-2.1.11-sources-7.jar)/org/HdrHistogram/DoubleRecorder.java
jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
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jar/org/HdrHistogram/LogarithmicIterator.java
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jar/org/HdrHistogram/IntCountsHistogram.java
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jar/org/HdrHistogram/HistogramIterationValue.java
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jar/org/HdrHistogram/RecordedValuesIterator.java
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jar/org/HdrHistogram/Histogram.java
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jar/org/HdrHistogram/DoubleLinearIterator.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/Version.java
* /opt/cola/permits/1183569501_1627428110.01/0/hdrhistogram-2-1-11-sources-7-
jar/org/HdrHistogram/LinearIterator.java
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jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
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jar/org/HdrHistogram/AllValuesIterator.java
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jar/org/HdrHistogram/PercentileIterator.java
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jar/org/HdrHistogram/DoubleLogarithmicIterator.java
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package org.HdrHistogram;

final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}

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1.33 cairo 1.14.6-1
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## Contributions to the urllib3 project

### Creator & Maintainer

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In chronological order:

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  * HTTPS patch (which inspired HTTPSConectionPool)

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

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConectionPool
  * 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>
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* IPv6 url support and test coverage

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

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* 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 <http://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 <http://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 <http://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 <abacabadabacaba@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

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* 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()`.

* 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.

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

1.38 s-nail 14.8.6-1
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imap_gssapi.h, smtp_gssapi.h:
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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hmac_md5():
derived from:

Network Working Group   H. Krawczyk
Request for Comments: 2104   IBM
Category: Informational   M. Bellare
    UCSD
    R. Canetti
    IBM
    February 1997

HMAC: Keyed-Hashing for Message Authentication

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1.39 mail 1.5.4
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1.40 jetty-http 9.4.24.v20191120
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPLv2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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<signature of Ty Coon>, 1 April 1989
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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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The End
#!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 strict;
use Config;
BEGIN { require './test.pl' }

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

my ($opt) = @ARGV;

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

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

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

done_testing;

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

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

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

    $year;
}

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

    $year;
}
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1.45 jackson-dataformat-xml 2.4.2

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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### 1.46 icu 60

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

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

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

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
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1.50 initramfs-tools 0.122ubuntu8.8
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The current Debian maintainer are maximilian <maks@debian.org>
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1.55 system-io-ports 4.5.50709

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Martin Richards
23 February 2007
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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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/* zlib.h -- interface of the 'zlib' general purpose compression library
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

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

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

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

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Version 3, 29 June 2007

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

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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 B razile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
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Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of
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This option is useful when you wish to copy part of the code of
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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
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
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When a "work that uses the Library" uses material from a header file
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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OVERVIEW General description of JPEG and the IJG software.
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REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
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Other documentation files in the distribution are:

User documentation:
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wizard.doc  Advanced usage instructions for JPEG wizards only.
change.log  Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc  How to use the JPEG library in your own programs.
example.c   Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced “jay-peg”) is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding
variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting
the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application. We have also included
"jpegtran", a utility for lossless transcoding between different JPEG
processes, and "rdjpgcom" and "wrjpgcom", two simple applications for
inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
REFERENCES section for introductory material.) Rather, it is intended to
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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually
A preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body send usenet/news.answers/jpeg-faq/part1
RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should
be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

**TO DO**

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

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 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
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 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 *
 * We also provide FDCT routines with various input sample block sizes for
 * direct resolution reduction or enlargement and for direct resolving the
 * common 2x1 and 1x2 subsampling cases without additional resampling: NxN
 * (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
  * just the lower 8 frequency coefficients and discarding the rest.
* We must scale the output coefficients of the N-point FDCT appropriately
  * to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
  * is folded into the constant multipliers (pass 2) and/or final/initial
    * shifting.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
  * since there would be too many additional constants to pre-calculate.
*/

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 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file contains a fast, not so accurate integer implementation of the
  inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
  must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
  on each row (or vice versa, but it's more convenient to emit a row at
  a time). Direct algorithms are also available, but they are much more
  complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
  scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
  Japanese, but the algorithm is described in the Pennebaker & Mitchell
  JPEG textbook (see REFERENCES section in file README). The following code
  is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
  possible to arrange the computation so that many of the multiplies are
  simple scalings of the final outputs. These multiplies can then be
  folded into the multiplications or divisions by the JPEG quantization
  table entries. The AA&N method leaves only 5 multiplies and 29 adds
  to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
  accuracy is lost due to imprecise representation of the scaled
  quantization values. The smaller the quantization table entry, the less
  precise the scaled value, so this implementation does worse with high-
  quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jidctfst.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * wrrle.c
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).

* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdout stream.

* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrrle.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmainct.c

No license file was found, but licenses were detected in source scan.

/*
* jdmerge.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
*
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* \[ R = Y + K1 \times Cr \]
* \[ G = Y + K2 \times Cb + K3 \times Cr \]
* \[ B = Y + K4 \times Cb \]
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* \[ \text{YCC} \Rightarrow \text{RGB} \] color conversion only (YCbCr or BG_YCC).
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmerge.c
No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software

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

README for release 9c of 14-Jan-2018

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

This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP

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

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products.
No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".
We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES
==========

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.iijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
==================

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsrc9c.zip.


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
=================

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.
Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijs.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS
================

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies.

IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions.

One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the
name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties. We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent. The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations. IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was. The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable. IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO
=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/README
No license file was found, but licenses were detected in source scan.

/*
 * jcparam.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcparam.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
This file contains the decompression postprocessing controller. This controller manages the upsampling, color conversion, and color quantization/reduction steps; specifically, it controls the buffering between upsample/color conversion and color quantization/reduction.

If no color quantization/reduction is required, then this module has no work to do, and it just hands off to the upsample/color conversion code. An integrated upsample/convert/quantize process would replace this module entirely.

*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* jcdctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

*/
* ckconfig.c
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/c/ckconfig.c
No license file was found, but licenses were detected in source scan.

*/
* jdct.h
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/c/jdct.h
No license file was found, but licenses were detected in source scan.

*/
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains downsampling routines.
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a 'triangle filter' which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
 * jversion.h
 *
 * Copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains software version identification.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jversion.h
/*
 * cjpeg.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options]  inputfile  outputfile
 * cjpeg [options]  [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options]  -outfile  outputfile  inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
 * /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemdos.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides an MS-DOS-compatible implementation of the system-
 * dependent portion of the JPEG memory manager. Temporary data can be
 * stored in extended or expanded memory as well as in regular DOS files.
 *
 * If you use this file, you must be sure that NEED_FAR_POINTERS is defined
 * if you compile in a small-data memory model; it should NOT be defined if
 * you use a large-data memory model. This file is not recommended if you
 * are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
 * Also, this code will NOT work if struct fields are aligned on greater than

* 2-byte boundaries.

* Based on code contributed by Ge' Weijers.

*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemdos.c
No license file was found, but licenses were detected in source scan.

/
* jctrans.c

* Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jctrans.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The distribution includes the JPEG library proper, plus two application programs ("cjpe" and "djpe") which use the library to convert JPEG files to and from some other popular image formats. A third application "jpegtran" uses the library to do lossless conversion between different variants of JPEG. There are also two stand-alone applications, "rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY
=================

Include files:

jpeglib.hJPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference system include files.
jpegint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jcapiMin.c Application program interface: core routines for compression.
jcapiStd.c Application program interface: standard compression.
jdapiMin.c Application program interface: core routines for decompression.
jdapiStd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jcparam.c Compression parameter setting helper routines.
jctrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jcmaint.c Main buffer controller (preprocessor => JPEG compressor).
jcrepct.c Preprocessor buffer controller.
jccoefct.c Buffer controller for DCT coefficient buffer.
jccolor.c Color space conversion.
jsample.c Downsampling.
jdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
Open Source Used In HyperFlex HX Data Platform 5.0(1a) 958

jfdctfst.c: Forward DCT using faster, less accurate integer method.
jfdctflt.c: Forward DCT using floating-point arithmetic.
jchuff.c: Huffman entropy coding.
jcarith.c: Arithmetic entropy coding.
jcmarker.c: JPEG marker writing.
jdatadst.c: Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c: Master control: determines which other modules to use.
jdinput.c: Input controller: controls input processing modules.
jdmainct.c: Main buffer controller (JPEG decompressor => postprocessor).
jdcoefct.c: Buffer controller for DCT coefficient buffer.
jdpostct.c: Postprocessor buffer controller.
jdmarker.c: JPEG marker reading.
jdhuff.c: Huffman entropy decoding.
jdarith.c: Arithmetic entropy decoding.
jddctmgr.c: DCT manager (IDCT implementation selection & control).
jdctint.c: Inverse DCT using slow-but-accurate integer method.
jidctfst.c: Inverse DCT using faster, less accurate integer method.
jidctflt.c: Inverse DCT using floating-point arithmetic.
jdsample.c: Upsampling.
jdcolor.c: Color space conversion.
jdmerge.c: Merged upsampling/color conversion (faster, lower quality).
jquant1.c: One-pass color quantization using a fixed-spacing colormap.
jquant2.c: Two-pass color quantization using a custom-generated colormap. Also handles one-pass quantization to an externally given map.
jdatasrc.c: Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c: Tables for common use in arithmetic entropy encoding and decoding routines.
jerror.c: Standard error handling routines (application replaceable).
jmemmgr.c: System-independent (more or less) memory management code.
jutils.c: Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs.c: "No backing store": assumes adequate virtual memory exists.
jmemansi.c: Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c: Makes temporary files with program-generated file names.
jmemdos.c: Custom implementation for MS-DOS (16-bit environment only): can use extended and expanded memory as well as temp files.
jmemmac.c: Custom implementation for Apple Macintosh.
Exactly one of the system-dependent modules should be configured into an
installed JPEG library (see install.txt for hints about which one to use).
On unusual systems you may find it worthwhile to make a special
system-dependent memory manager.

Non-C source code files:

jnemdos.asm80x86 assembly code support for jnemdos.c; used only in
MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cderror.h Additional error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.
rdsswitch.c Code to process some of cjpeg's more complex switches.
Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdfgif.c GIF file input (now just a stub).
rdrpm.c PPM/PGM file input.
rdrle.c Utah RLE file input.
rdrtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrdfgif.c GIF file output (a mere shadow of its former self).
wrppm.c PPM/PGM file output.
wrdrle.c Utah RLE file output.
wrdrtarga.c Targa file output.
RDJPGCOM/WRJPGCOM

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use
jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES

Documentation (see README for a guide to the documentation files):

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.
configure.ac Source file for use with Autoconf to generate configure.
ltmain.sh Support scripts for configure (from GNU libtool).
cfguess
cfg.sub
depcomp
missing
ar-lib
compile
install-sh Install shell script for those Unix systems lacking one.
Makefile.in Makefile input for configure.
Makefile.am Source file for use with Automake to generate Makefile.in.
ckconfig.c Program to generate jconfig.h on non-Unix systems.
jconfig.txt Template for making jconfig.h by hand.
mak/* Sample makefiles for particular systems.
jconfig/* Sample jconfig.h for particular systems.
libjpeg.map Script to generate shared library with versioned symbols.
libjpeg.pc.in libjpeg.pc pkg-config file input for configure.
aclocal.m4 M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):
test*. Source and comparison files for confidence test. These are binary image files, NOT text files.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/filelist.txt
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downscaled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform
  JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity; they merely add a simple
command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. The library does not support the hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.
2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.
The decompressor library contains the following main elements:

**JPEG proper:**
- Entropy decoding (sequential or progressive, Huffman or arithmetic).
- Dequantization, inverse DCT, MCU disassembly.

**Postprocessing:**
- Upsampling. Optionally, this step may be able to do more general rescaling of the image.
- Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [currently it does not].
- Optional color quantization (e.g., reduction to 256 colors).
- Optional color precision reduction (e.g., 24-bit to 15-bit color).

[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***
It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The
reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:
   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.
   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

   Each buffer controller sees the world as follows:

   input data => processing step A => buffer => processing step B => output data
   |         |         |
   ------------------- controller --------------------

   The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.
A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
    |-- Preprocessing controller --]
    |      |-- Downsampling
Main controller --]
    |      |-- Forward DCT, quantize
    |-- Coefficient controller --]
    |      |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.
* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of block_size samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of block_size rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.
* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
   |-- Coefficient controller --|
   |                             |-- Dequantize, Inverse DCT
Main controller --|
   |                  |-- Upsampling
   |-- Postprocessing controller --| |-- Colorspace conversion
   |                             |-- Color quantization
   |                             |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:
* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Color space conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.
* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:
1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use.

The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as GETJSAMPLE(image[colorcomponent][row][col]) where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.
Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```
typedef short JCOEF; // a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; // ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment).
We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman
decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was
dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business
with the memory manager:
1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.
   The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.
   Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term
system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small
interface to malloc and free library routines (or their equivalents)
jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would
be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor’s Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/structure.txt

No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG compressor proper; it holds downsampled data in the JPEG colorspace.

*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcmainct.c

No license file was found, but licenses were detected in source scan.

/**
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the inverse DCT (Discrete Cosine Transform). In the IJG code, this routine must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.
 *
 * We also provide IDCT routines with various output sample block sizes for direct resolution reduction or enlargement and for direct resolving the common 2x1 and 1x2 subsampling cases without additional resampling: NxN (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
 *
 * For N<8 we simply take the corresponding low-frequency coefficients of the 8x8 input DCT block and apply an NxN point IDCT on the sub-block to yield the downscaled outputs.
 * This can be seen as direct low-pass downsampling from the DCT domain point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jidctint.c
No license file was found, but licenses were detected in source scan.

/
* jchuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.
* 
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
* 
* We do not support output suspension for the progressive JPEG mode, since
* the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jchuff.c
No license file was found, but licenses were detected in source scan.

/
* jmemsys.h
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
* 
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
* jdsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains upsampling routines.
* 
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
* 
* An excellent reference for image resampling is
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
* cdjpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* cdjpeg.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains common declarations for the sample applications
* cjpeg and djpeg. It is NOT used by the core JPEG library.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
* rdswitch.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
*-qtables fileRead quantization tables from text file
*-scans fileRead scan script from text file
*-quality N[,N,...] Set quality ratings
*-qslots N[,N,...] Set component quantization table selectors
*-sample HxV[,HxV,...] Set component sampling factors
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
* jdmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*
* jdinput.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
* jmemname.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/
Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemname.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcoeftc.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2002-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdcoeftc.c
No license file was found, but licenses were detected in source scan.

/*
 * rdbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed BMP format).
 *
 * This code contributed by James Arthur Boucher.
/*

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdbmp.c
No license file was found, but licenses were detected in source scan.

*/

* jdcolor.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*

* jmemmac.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* jmemmac.c provides an Apple Macintosh implementation of the system-
* dependent portion of the JPEG memory manager.
* 
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
* 
* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
* instead of malloc and free. It accurately determines the amount of
* memory available by using CompactMem. Notice that if left to its
* own devices, this code can chew up all available space in the
* application's zone, with the exception of the rather small "slop"
* factor computed in jpeg_mem_available(). The application can ensure
* that more space is left over by reducing max_memory_to_use.
* 
* Large images are swapped to disk using temporary files and System 7.0+'s
* temporary folder functionality.
* 
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.
* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7. (If no temporary files
* are created, it will run fine.)
*
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls. You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
*
*     FSpDelete     ->  HDelete
*     FSpGetFInfo  ->  HGetFInfo
*     FSpCreate    ->  HCreate
*     FSpOpenDF    ->  HOpen     *** Note: not HOpenDF ***
*     FSMakeFSSpec ->  (fill in spec by hand.)
*
* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
/*/ 

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemmac.c
No license file was found, but licenses were detected in source scan.

/ *
* wrppm.c
* 
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/ 

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcarith.c

No license file was found, but licenses were detected in source scan.

/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

/*

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jidctflt.c
No license file was found, but licenses were detected in source scan.

/*
* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in GIF format.
*
***********************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.        *
* There is no trace of the LZW algorithm in this file.                  *
***********************************************************************
*
* These routines may need modification for non-Unix environments or *
* specialized applications. As they stand, they assume output to *
* an ordinary stdio stream.                                           *
*/
*
* This code is loosely based on ppmto GIF from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIF ENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.  *
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its *
* documentation for any purpose and without fee is hereby granted, provided *
* that the above copyright notice appear in all copies and that both that *
* copyright notice and this permission notice appear in supporting *
* documentation. This software is provided "as is" without express or *
* implied warranty.
We are also required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."
*/

Found in path(s):
/proc/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
* rdtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
/proc/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
* jdhuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines.
* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdhuff.c
No license file was found, but licenses were detected in source scan.

/**
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant2.c
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011-2012 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * * pool-based allocation and freeing of memory;
 * * policy decisions about how to divide available memory among the
 *   virtual arrays;
 * * control logic for swapping virtual arrays between main memory and
 *   backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
 * main memory to use.
 * This file is system-dependent in the sense that some of its functions
 * are unnecessary in some systems. For example, if there is enough virtual
 * memory so that backing storage will never be used, much of the virtual
 * array control logic could be removed. (Of course, if you have that much
 * memory then you shouldn't care about a little bit of unused code...)
*/
This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all. Try doing

```
./configure
make
make test
```
If that doesn't complain, do

```
make install
```
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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

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Hints for specific systems

BEFORE YOU START
================

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
==========================

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
---------------------------------------------------------------

If you are on a Unix machine, you can just type
./configure
and let the configure script construct appropriate configuration files. If you're using "csh" on an old version of System V, you might need to type sh configure instead to prevent csh from trying to execute configure itself. Expect configure to run for a few minutes, particularly on slower machines; it works by compiling a series of test programs.
Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
If you want to build libjpeg only as a static library, say
./configure --disable-shared
If you want to build libjpeg only as a shared library, say
./configure --disable-static
Configure uses GNU libtool to take care of system-dependent shared library building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc. To force a particular compiler to be selected, use the CC option, for example
./configure CC='cc'
The same method can be used to include any unusual compiler switches. For example, on HP-UX you probably want to say
./configure CC='cc -Aa'

to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc. You can override this by saying, for example,
./configure CFLAGS='-O2'
if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option "--enable-maxmem=N" where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files
--------------------------------------------------------------------------------

If you have one of these systems, you can just use the provided configuration files:
Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand
--------------------------------

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if
there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get cjpeg.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style
-------------------

These programs can use a Unix-like command line style which supports redirection and piping, like this:

```
cjpeg inputfile >outputfile
```

cjpeg <inputfile >outputfile

```
source program | cjpeg >outputfile
```

The simpler "two file" command line style is just

cjpeg inputfile outputfile

You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOPEN or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
---------------------------

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the
code to do this is rather system-dependent. We provide five different memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-).) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient
memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=====================

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
====================

As a quick test of functionality we've included a small sample image in several forms:

testorig.jpg Starting point for the djpeg tests.
testing.ppm The output of djpeg testorig.jpg
testing.bmp The output of djpeg -bmp -colors 256 testorig.jpg
testing.jpg The output of cjpeg testing.ppm
testprog.jpg Progressive-mode equivalent of testorig.jpg.
testimg.jpg The output of cjpeg -progressive -optimize testing.ppm
(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testing*.jpg files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary
comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjjpeg by hand and compare the output files to testing* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t. Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djjpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOEPN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testing.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE
==========================

Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.
If you generated a Makefile with the "configure" script, you can just say make install
to install the programs and their man pages into the standard places.
(You'll probably need to be root to do this.) We recommend first saying make -n install
to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h
into your include-file directory, and put the library file libjpeg.a
(extension may vary depending on system) wherever library files go.
If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib

OPTIONAL STUFF
==============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:
1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to
work with deeper than 8-bit data, you can compile the IJG code for 9-bit to
12-bit operation.
To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED,
because the code for those formats doesn't handle deeper than 8-bit data
and won't even compile. (The PPM code does work, as explained below.
The GIF code works too; it scales 8-bit GIF data to and from 12-bit
depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test
files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not
supported and may be added later.
Exception: The transcoding part (jpegtran) supports all settings in a
single instance, since it operates on the level of DCT coefficients and
not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either
text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files
which have a maxval greater than 255 are assumed to use 2 bytes per sample,
MSB first (big-endian order). As of early 1995, 2-byte binary format is not
officially supported by the PBMPLUS library, but it is expected that a
future release of PBMPLUS will support it. Note that the PPM reader will
read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming
data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the
cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM
format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this
format is not yet widely supported, you can disable it by compiling wrppm.c
with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a
standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy
of djpeg to keep around. But hopefully you won't need it for very long.
Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have
it stored in some other, nonstandard format. In that case you'll probably
want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If
you selected more than 8-bit data precision, cjpeg uses arithmetic coding
by default. The Huffman encoder normally uses entropy optimization to
compute usable tables for higher precision. Otherwise, you'll have to
supply different default Huffman tables.
Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone’s output. Taking out support for image file formats that you don’t use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing ejpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add
"#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -inline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
==========================

We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h'
Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPGTMP:".

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "$define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the
space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading

```
#pragma novector
```

just before the loop

```
for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;
```

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).

[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

```
./configure CC='cc -Aa'
```

(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add

```
-Aa
```

to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the command() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example
available at the moment, but there are some helpful starting points:
1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to
JPEG under System 7 and later. This only illustrates how to use the
compression half of the library, but it does a very nice job of that part.
2. Jim Brunner prepared a Mac-style user interface for both compression and
decompression. Unfortunately, it hasn't been updated since IJG v4, and
the library's API has changed considerably since then. Still it may be of
some help, particularly as a guide to compiling the IJG code under Think C.
Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu
or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses
NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific
implementation of jpeg_mem_available(). It also creates temporary files that
follow Mac conventions. (That part of the code relies on System-7-or-later OS
functions. See the comments in jmemmac.c if you need to run it on System 6.)
NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger
than available memory. If you use any memory manager back end other than
jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and
"DisposePtr", because Mac C libraries often have peculiar implementations of
malloc/free. (For instance, free() may not return the freed space to the
Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c
already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND.
You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout.
This means that when using the cjpeg/djpeg programs, you'll have to type the
input and output file names in the "Arguments" text-edit box, rather than
using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would
eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended
float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power
of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h;
it includes all the recommended symbol definitions. If you have AppleScript
installed, you can run the supplied script makeproj.mac to create CodeWarrior
project files for the library and the testbed applications, then build the
library and applications. (Thanks to Dan Sears and Don Agro for this nifty
hack, which saves us from trying to maintain CodeWarrior project files as part
of the IJG distribution...)
Macintosh, Think C:

The documentation in Jim Brunner’s "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared “far”; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible.
It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the “make test” procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs,c if the environment supplies adequate virtual memory, otherwise use jmemansi,c or jmemname,c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.

MS-DOS, Borland C:
Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows
include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

```c
/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)
```

`windef.h` contains the declarations

```c
#define far
#define FAR far
```

Since `jmorecfg.h` tries to define `FAR` as empty, you may get a compiler warning if you include both `jpeglib.h` and `windef.h` (which `windows.h` includes). To suppress the warning, you can put "#ifdef FAR"/"#endif" around the line "#define FAR" in `jmorecfg.h`.

(Something like this is already in `jmorecfg.h`, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module `jerror.c`, since our default error handler does a couple of inappropriate things:

1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling `exit()`.

A simple stopgap solution for problem 1 is to replace the line

```c
fprintf(stderr, "%s\n", buffer);
```

with

```c
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
```

It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in `jerror.c`; just define `USE_WINDOWS_MESSAGEBOX` in `jconfig.h` to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the `setjmp/longjmp` technique discussed in `libjpeg.txt` and illustrated in `example.c`. (NOTE: some older Windows C compilers provide versions of `setjmp/longjmp` that don't actually work under Windows. You may need to use the Windows system functions `Catch` and `Throw` instead.)
The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put

```
#define MAX_ALLOC_CHUNK 65520L/* Maximum request to malloc() */
```

into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.) jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type, methodname, arglist)
  type (_far _pascal *methodname) arglist

For a 32-bit DLL you may want something like
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type

Although not all the GLOBAL routines are actually intended to be called by
the application, the performance cost of making them all DLL entry points is
negligible.

The unmodified IJG library presents a very C-specific application interface,
so the resulting DLL is only usable from C or C++ applications. There has
been some talk of writing wrapper code that would present a simpler interface
usable from other languages, such as Visual Basic. This is on our to-do list
but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment,
but you'll need to tweak it in a 16-bit environment (you'd need to define
NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need
alteration if you want to use it for Windows --- in particular, you should
use jmennobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile
jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix
it. In the meantime, the simplest known workaround is to add a redundant
definition of the variable range_limit in h2v1_merged_upsample(), at the head
of the block that handles odd image width (about line 268 in v6 jdmerge.c):

/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
  register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
  cb = GETJSAMPLE(*inptr1);
}

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample
doesn't trigger the bug.

Recent reports suggest that this bug does not occur with "bcc32a" (the
Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading
to a color shift in processed images) was produced if any of the following
optimization switch combinations were used:

-Ot -Og
-Ot -Op
-Ot -Om

So try backing off on optimization if you see such a problem. (Are there
several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" [ ... ] around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs setup-vc6
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build
the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the Developer Command Prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs setup-v15
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.
   b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile. If you are using configure, you can do this by saying
./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:
On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/install.txt
No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djpeg [options] inputfile outputfile
 * djpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * djpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 */
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdatasrc.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
*  Block comments in this style.
*/

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}

with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)
Multi-word names should be written in lower case with underscores, e.g., multi_word_name (not multiWordName). Preprocessor symbols and enum constants are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
  code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif

which is used like this:

struct function_pointers {
  JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
  JMETHOD(void, term_entropy_encoder, (void));
};

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".
It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don’t use global variables; anything that must be used in another module should be in the common data structures.

4. Don’t use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/coderules.txt
No license file was found, but licenses were detected in source scan.

/*
* jcomapi.c
* /*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface routines that are used for both
* compression and decompression.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */

/*
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */

;/* Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
#define HAVE_PROTOTYPES

;/* Does your compiler support the declaration "unsigned char" ?
 * How about "unsigned short" ?
 */
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT
/ * Define "void" as 'char' if your compiler doesn't know about type void.
 * NOTE: be sure to define void such that "void *" represents the most general
 * pointer type, e.g., that returned by malloc().
 * /
/ * #define void char */

/ * Define "const" as empty if your compiler doesn't know the "const" keyword.
 * /
/ * #define const */

/ * Define this if an ordinary "char" type is unsigned.
 * If you're not sure, leaving it undefined will work at some cost in speed.
 * If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
 * /
#undef CHAR_IS UNSIGNED

/ * Define this if your system has an ANSI-conforming <stddef.h> file.
 * /
#define HAVE_STDDEF_H

/ * Define this if your system has an ANSI-conforming <stdlib.h> file.
 * /
#define HAVE_STDLIB_H

/ * Define this if your system does not have an ANSI/SysV <string.h>,
 * but does have a BSD-style <strings.h>.
 * /
#undef NEED_BSD_STRINGS

/ * Define this if your system does not provide typedef size_t in any of the
 * ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
 * <sys/types.h> instead.
 * /
#undef NEED_SYS_TYPES_H

/ * For 80x86 machines, you need to define NEED_FAR_POINTERS,
 * unless you are using a large-data memory model or 80386 flat-memory mode.
 * On less brain-damaged CPUs this symbol must not be defined.
 * (Defining this symbol causes large data structures to be referenced through
 * "far" pointers and to be allocated with a special version of malloc.)
 * /
#undef NEED_FAR POINTERS

/ * Define this if your linker needs global names to be unique in less
 * than the first 15 characters.
 * /
#undef NEED_SHORT_EXTERNAL_NAMES
/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE/* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN/* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED
#endif /* JPEG_INTERNALS */

/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
*/
* Other applications can ignore these.
*/

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED/* BMP image file format */
#define GIF_SUPPORTED/* GIF image file format */
#define PPM_SUPPORTED/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED/* Utah RLE image file format */
#define TARGA_SUPPORTED/* Targa image file format */

/* Define this if you want to name both input and output files on the command line, rather than using stdout and optionally stdin. You MUST do this if your system can't cope with binary I/O to stdin/stdout. See comments at head of cjjpeg.c or djjpeg.c. */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files. This is crucial under MS-DOS, where the temporary "files" may be areas of extended memory; on most other systems it's not as important. */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb"). This is necessary on systems that distinguish text files from binary files, and is harmless on most systems that don't. If you have one of the rare systems that complains about the "b" spec, define this symbol. */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjjpeg/djpeg. */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
* wrjpgcom.c
* 
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
/ /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrjpgcom.c

No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
 ** copyright notice and this permission notice appear in supporting
 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
 */
/*
 * jcprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 * 
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcprepct.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
 * case.
 * 
 * Most of the routines intended to be called directly by an application
 * are in this file or in jcapistd.c. But also see jeparam.c for
 * parameter-setup helper routines, jcomapi.c for routines shared by
 * compression and decompression, and jctrans.c for the transcoding case.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
* jdmarker.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/
Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jccolor.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * Developed 1997-2015 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
Suspension is not currently supported in this module.

No license file was found, but licenses were detected in source scan.

// wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in Targa format.
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* Based on code contributed by Lee Daniel Crocker.

No license file was found, but licenses were detected in source scan.

// jpegtran.c
*
* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.

No license file was found, but licenses were detected in source scan.

// rdppm.c

* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/

/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
 */

* jaricom.c
*
* Developed 1997-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
*
* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
*/
Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
* jutils.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jutils.c
No license file was found, but licenses were detected in source scan.

/*
* jmemnobs.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
*/
USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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Notes for MS-DOS implementors

You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing,
and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
- * Hierarchical storage
- * Lossless JPEG
- * DNL marker
- * Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
   jpeg_start_compress(...);
while (scan lines remain to be written)
   jpeg_write_scanlines(...);
   jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.
The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application’s responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image’s size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.
BASIC LIBRARY USAGE
=================

Data formats
----------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress
data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

image_widthWidth of image, in pixels
image_height
input_components
in_color_space

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might
want to use an abbreviated datastream, read the section on abbreviated
datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG
parameters or other fields of the JPEG object until you have completed
the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines()
one or more times. You can pass one or more scanlines in each call, up
to the total image height. In most applications it is convenient to pass
just one or a few scanlines at a time. The expected format for the passed
data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec
contains some weasel wording about how top and bottom are application-defined
terms (a curious interpretation of the English language...) but if you want
your files to be compatible with everyone else’s, you WILL use top-to-bottom
order. If the source data must be read in bottom-to-top order, you can use
the JPEG library’s virtual array mechanism to invert the data efficiently.
Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far
in the next_scanline field of the JPEG object. Usually you can just use
this variable as the loop counter, so that the loop test looks like
 "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data.
example.c shows the following code for the case of a full-size 2-D source
array containing 3-byte RGB pixels:

    JSAMPROW row_pointer[1]; /* pointer to a single row */
    int row_stride; /* physical row width in buffer */

    row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

    while (cinfo.next_scanline < cinfo.image_height) {
        row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
        jpeg_write_scanlines(&cinfo, row_pointer, 1);
    }

jpeg_write_scanlines() returns the number of scanlines actually written.
This will normally be equal to the number passed in, so you can usually
ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height,
the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun
  will cause the compressor to return before accepting all the passed lines.
  This feature is discussed under "I/O suspension", below. The normal
  stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of
next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to
complete the compression cycle. This step is ESSENTIAL to ensure that the
last bufferload of data is written to the data destination.
jpeg_finish_compress() also releases working memory associated with the JPEG
object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output
stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code
optimization, jpeg_finish_compress() will perform the additional passes using
data buffered by the first pass. In this case jpeg_finish_compress() may take
quite a while to complete. With the default compression parameters, this will
not happen.

It is an error to call jpeg_finish_compress() before writing the necessary
total number of scanlines. If you wish to abort compression, call
jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object
as discussed next, or you may use it to compress another image. In that case
return to step 2, 3, or 4 as appropriate. If you do not change the
destination manager, the new datastream will be written to the same target.
If you do not change any JPEG parameters, the new datastream will be written
with the same parameters as before. Note that you can change the input image
dimensions freely between cycles, but if you change the input colorspace, you
should call jpeg_set_defaults() to adjust for the new colorspace; and then
you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling
jpeg_destroy_compress(). This will free all subsidiary memory (regardless of
the previous state of the object). Or you can call jpeg_destroy(), which
works for either compression or decompression objects --- this may be more
convenient if you are sharing code between compression and decompression
cases. (Actually, these routines are equivalent except for the declared type
of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy()
should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing
it is your responsibility --- jpeg_destroy() won’t. Ditto for the error
handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up
in either of two ways:

* If you don’t need the JPEG object any more, just call
jpeg_destroy_compress() or jpeg_destroy() to release memory. This is
legitimate at any point after calling jpeg_create_compress() --- in fact,
it’s safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call
jpeg_abort() which works on both compression and decompression objects.
This will return the object to an idle state, releasing any working memory.
jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your
responsibility; neither of these routines will call term_destination().
(See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG
object that has reported an error by calling error_exit (see "Error handling"
for more info). The internal state of such an object is likely to be out of
whack. Either of these two routines will return the object to a known state.

Decompression details

---------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.
This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG
object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used — in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.  
* Abbreviated JPEG files are to be processed — see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.
5. `jpeg_start_decompress(...);`

Once the parameter values are satisfactory, call `jpeg_start_decompress()` to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

```c
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- `output_width` image width and height, as scaled
- `output_height`
- `out_color_components` # of color components in `out_color_space`
- `output_components` # of color components returned per pixel
- `colormap` the selected colormap, if any
- `actual_number_of_colors` number of entries in colormap

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling `jpeg_start_decompress()`. This is a little tricky since the `output_XXX` fields are not normally valid then. You can make them valid by calling `jpeg_calc_output_dimensions()` after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   `jpeg_read_scanlines(...);`

Now you can read the decompressed image data by calling `jpeg_read_scanlines()`
one or more times. At each call, you pass in the maximum number of scanlines to be read (i.e., the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.
After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).
While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
--------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using
only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

```c
jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
```
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

```c
jpeg_default_colorspace (j_compress_ptr cinfo)
```
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

```c
jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
```
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

```c
jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
```
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

```c
int jpeg_quality_scaling (int quality)
```
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.

```
jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values
(see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the supported scaling ratios are
M/N with all N from 1 to 16, where M is the destination DCT size,
which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this
is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using
jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero
(requires decoder with inverse color transform support, introduced
with IJG JPEG 9).
Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.
Set this value for lossless RGB application *before* calling
jpeg_set_colorspace(), because entropy table assignment in
jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables
for the image. This requires an extra pass over the data and
therefore costs a good deal of space and time. The default is
FALSE, which tells the compressor to use the supplied or default
Huffman tables. In most cases optimal tables save only a few percent
of file size compared to the default tables. Note that when this is
TRUE, you need not supply Huffman tables at all, and any you do
supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.

NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components. If FALSE, use only DCT size <= 8 and simple separate downsampling. Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker. jpeg_set_defaults() initializes the version to 1.01 (major=minor=1). You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.
UINT8 density_unit
UINT16 X_density
UINT16 Y_density

The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker

If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]

Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]

Linear quantization scaling factors (percentage, initialized 100) for use with jpeg_default_qtables().

See rdswitch.c and cjpeg.c for an example of usage.

Note that the q_scale_factor[] fields are the "linear" scales, so you have to convert from user-defined ratings via jpeg_quality_scaling().

Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used. Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width	Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.
int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are
0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in
release v6, the compressor library will fill this in automatically;
you don't have to.)

Decompression parameter selection
---------------------------------
Decompression parameter selection is somewhat simpler than compression
parameter selection, since all of the JPEG internal parameters are
recorded in the source file and need not be supplied by the application.
(Unless you are working with abbreviated files, in which case see
"Abbreviated datastreams", below.) Decompression parameters control
the postprocessing done on the image to deliver it in a format suitable
for the application's use. Many of the parameters control speed/quality
tradeoffs, in which faster decompression may be obtained at the price of
a poorer-quality image. The defaults select the highest quality (slowest)
processing.

The following fields in the JPEG object are set by jpeg_read_header() and
may be useful to the application in choosing decompression parameters:

JDIMENSION image_width	Width and height of image
JDIMENSION image_height
int num_components	Number of color components
J_COLOR_SPACE jpeg_color_space	Colorspace of image
boolean saw_JFIF_marker	TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version	Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit	Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker	TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform	Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG
standard proper does not provide a way to record it. In practice most files
adhere to the JFIF or Adobe conventions, and the decoder will recognize these
correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the
The returned image are:

\* J_COLOR_SPACE out_color_space \\
Output color space. `jpeg_read_header()` sets an appropriate default based on `jpeg_color_space`; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GraySCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend \*jdc\*olor.c if you want an unusual conversion.

\* unsigned int scale_num, scale_denom \\
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by `jpeg_read_header()` with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

\* boolean quantize_colors \\
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

\* int desired_number_of_colors \\
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

\* boolean two_pass_quantize \\
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

\* J_DITHER_MODE dither_mode \\
Selects color dithering method. Supported values are: JDITHER_NONE: no dithering; fast, very low quality JDITHER_ORDERED: ordered dither; moderate speed and quality
JDITHER_FS
Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented
only in the single-pass, standard-colormap case. If you ask for
ordered dither when two_pass_quantize is TRUE or when you supply
an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next
two fields. colormap is set to NULL by jpeg_read_header(). The application
can supply a color map by setting colormap non-NULL and setting
actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress()
selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is
only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components
rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage
pointed to by this field is released by jpeg_finish_decompress().
Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same
as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling
of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles
it is preferable that this value matches the corresponding
do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding
progressive JPEG files; if FALSE, not. Default is TRUE. Early
progression stages look "fuzzy" with smoothing, "blocky" without.
In any case, block smoothing ceases to be applied after the first few
AC coefficients are known to full accuracy, so it is relevant only
when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant  
boolean enable_2pass_quant  
These are significant only in buffered-image mode, which is  
described in its own section below.

The output image dimensions are given by the following fields. These are  
computed from the source image dimensions and the decompression parameters  
by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions()  
to obtain the values that will result from the current parameter settings.  
This can be useful if you are trying to pick a scaling ratio that will get  
close to a desired target size. It's also important if you are using the  
JPEG library's memory manager to allocate output buffer space, because you  
are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width  
Actual dimensions of output image.  
JDIMENSION output_height  

int out_color_components  
Number of color components in out_color_space.  
int output_components  
Number of color components returned.  
int rec_outbuf_height  
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map  
index per pixel. Otherwise it equals out_color_components. The output arrays  
are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the  
buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the  
library will still work, but time will be wasted due to unnecessary data  
copying. In high-quality modes, rec_outbuf_height is always 1, but some  
faster, lower-quality modes set it to larger values (typically 2 to 4).  
If you are going to ask for a high-speed processing mode, you may as well  
go to the trouble of honoring rec_outbuf_height so as to avoid data copying.  
(An output buffer larger than rec_outbuf_height lines is OK, but won't  
provide any material speed improvement over that height.)

Special color spaces  
-------------------

The JPEG standard itself is "color blind" and doesn't specify any particular  
color space. It is customary to convert color data to a luminance/chrominance  
color space before compressing, since this permits greater compression. The  
existing JPEG file interchange format standards specify YCbCr or GRAYSCALE  
data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB  
or BG_YCC (big gamut color spaces, JFIF version 2). For special applications  
such as multispectral images, other color spaces can be used,  
but it must be understood that such files will be unportable.
The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

- RGB => YCbCr
- RGB => GRAYSCALE
- RGB => BG_YCC
- YCbCr => GRAYSCALE
- YCbCr => BG_YCC
- CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards.

jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports
YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an
application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data
(it weights distances appropriately for RGB colors). You'll need to modify
the code if you want to use it for non-RGB output color spaces. Note that
jquant2.c is used to map to an application-supplied colormap as well as for
the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG
files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect.
This is arguably a bug in Photoshop, but if you need to work with Photoshop
CMYK files, you will have to deal with it in your application. We cannot
"fix" this in the library by inverting the data during the CMYK<=>YCCK
transform, because that would break other applications, notably Ghostscript.
Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK
data in the same inverted-YCCK representation used in bare JPEG files, but
the surrounding PostScript code performs an inversion using the PS image
operator. I am told that Photoshop 3.0 will write uninverted YCCK in
EPS/JPEG files, and will omit the PS-level inversion. (But the data
polarity used in bare JPEG files will not change in 3.0.) In either case,
the JPEG library must not invert the data itself, or else Ghostscript would
read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG
routines will cause a message to be printed on stderr, followed by exit().
You can supply your own error handling routines to override this behavior
and to control the treatment of nonfatal warnings and trace/debug messages.
The file example.c illustrates the most common case, which is to have the
application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through
the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.
emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so,
calls output_message. The main reason for overriding this method
would be to abort on warnings. msg_level is -1 for warnings,
0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG
library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to
by the field err->jpeg_message_table. The messages are numbered from 0 to
err->last_jpeg_message, and it is these code numbers that are used in the
JPEG library code. You could replace the message texts (for instance, with
messages in French or German) by changing the message table pointer. See
jerror.h for the default texts. CAUTION: this table will almost certainly
change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are
handled by the same mechanism. The error handler supports a second "add-on"
message table for this purpose. To define an addon table, set the pointer
err->addon_message_table and the message numbers err->first_addon_message and
err->last_addon_message. If you number the addon messages beginning at 1000
or so, you won't have to worry about conflicts with the library's built-in
messages. See the sample applications cjpeg/djpeg for an example of using
addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...)for fatal errors
WARNMSn(...)for corrupt-data warnings
TRACEMSn(...)for trace and informational messages.
These macros store the message code and any additional parameters into the
error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters.
The additional parameters are inserted into the generated message using
standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination
manager" module. The default destination manager just writes the data to a
memory buffer or to a stdio stream, but you can provide your own manager to
do something else. Similarly, the decompression library calls a "source
manager" to obtain the compressed data; you can provide your own source
manager if you want the data to come from somewhere other than a memory
buffer or a stdio stream.

In both cases, compressed data is processed a buffer load at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer; /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

- `init_destination (j_compress_ptr cinfo)`
  Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize `next_output_byte` and `free_in_buffer`. `free_in_buffer` must be initialized to a positive value.

- `empty_output_buffer (j_compress_ptr cinfo)`
  This is called whenever the buffer has filled (`free_in_buffer` reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of `next_output_byte` and `free_in_buffer`). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. `free_in_buffer` must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).
term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all
data has been written. In most applications, this must flush any
data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you
want the destination manager to be cleaned up during an abort, you must do it
yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its
method pointers, and insert a pointer to the struct into the "dest" field of
the JPEG compression object. This can be done in-line in your setup code if
you like, but it's probably cleaner to provide a separate routine similar to
the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination
managers.

Decompression source managers follow a parallel design, but with some
additional frammishes. The source manager struct contains a pointer and count
defining the next byte to read from the work buffer and the number of bytes
remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is emptied. The manager's fill_input_buffer method must reset the pointer and
count. In most applications, the manager must remember the buffer's starting
address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.
I/O suspension

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an
overly small buffer could lead to infinite looping, if a single MCU required
more data than would fit in the buffer.) We recommend a buffer of at least
several Kbytes. You may want to insert explicit code to ensure that you don't
call jpeg_write_scanlines() unless there is a reasonable amount of space in
the output buffer; in other words, flush the buffer before trying to compress
more data.

The compressor does not allow suspension while it is trying to write JPEG
markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free
  space in the output buffer to hold the header markers (typically 600 or
  so bytes). The recommended buffer size is bigger than this anyway, so
  this is not a problem as long as you start with an empty buffer. However,
  this restriction might catch you if you insert large special markers, such
  as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the
  output buffer to emit any buffered data and the final EOI marker. In the
  current implementation, half a dozen bytes should suffice for this, but
  for safety's sake we recommend ensuring that at least 100 bytes are free
  before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend.
This means you cannot use suspension with multi-pass operating modes, namely
Huffman code optimization and multiple-scan output. Those modes write the
whole file during jpeg_finish_compress(), which will certainly result in
buffer overrun. (Note that this restriction applies only to compression,
not decompression. The decompressor supports input suspension in all of its
operating modes.)

Decompression suspension:
For decompression suspension, use a fill_input_buffer() routine that simply
returns FALSE (except perhaps during error recovery, as discussed below).
This will cause the decompressor to return to its caller with an indication
that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already
  completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.
The surrounding application must recognize these cases, load more data into
the input buffer, and repeat the call. In the case of jpeg_read_scanlines(),
increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a
convenient restart point before suspending. When fill_input_buffer() is
called, next_input_byte/bytes_in_buffer point to the current restart point,
which is where the decompressor will backtrack to if FALSE is returned.
The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially; they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers,
you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans.
Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the
decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
-------------------

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output() /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output() /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop
condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input
file is to be displayed; the scans are numbered starting at 1 for this
purpose. (You can use a loop counter starting at 1 if you like, but using
the library's input scan counter is easier.) The library automatically reads
data as necessary to complete each requested scan, and jpeg_finish_output()
advances to the next scan or end-of-image marker (hence input_scan_number
will be incremented by the time control arrives back at jpeg_start_output()).
With this technique, data is read from the input file only as needed, and
input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the
buffered image remains available; it can be read additional times by
repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()
sequence. For example, a useful technique is to use fast one-pass color
quantization for display passes made while the image is arriving, followed by
a final display pass using two-pass quantization for highest quality. This
is done by changing the library parameters before the final output pass.
Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such
until after it is read, so a post-input display pass is the best approach if
you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release
the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can
cause the library to decode input data in advance of what's needed to produce
output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It
reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will
immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input()
whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is
being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the
  state of the library's input processing.

The first of these benefits only requires interspersing calls to
jpeg_consume_input() with your display operations and any other processing
you may be doing. To avoid wasting cycles due to backtracking, it's best to
call jpeg_consume_input() only after a hundred or so new bytes have arrived.
This is discussed further under "I/O suspension", above. (Note: the JPEG
library currently is not thread-safe. You must not call jpeg_consume_input()
from one thread of control if a different library routine is working on the
same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available
before you start a new output pass, you may as well skip the output pass
corresponding to the completed scan. This occurs for free if you pass
cinfo.input_scan_number as the target scan number to jpeg_start_output().
The input_scan_number field is simply the index of the scan currently being
consumed by the input processor. You can ensure that this is up-to-date by
emptying the input buffer just before calling jpeg_start_output(): call
jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or
JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the
cinfo.output_scan_number field. The library's output processing calls
jpeg_consume_input() whenever the current input scan number and row within
that scan is less than or equal to the current output scan number and row.
Thus, input processing can "get ahead" of the output processing but is not
allowed to "fall behind". You can achieve several different effects by
manipulating this interlock rule. For example, if you pass a target scan
number greater than the current input scan number, the output processor will
wait until that scan starts to arrive before producing any output. (To avoid
an infinite loop, the target scan number is automatically reset to the last
scan number when the end of image is reached. Thus, if you specify a large
target scan number, the library will just absorb the entire input file and
then perform an output pass. This is effectively the same as what
jpeg_start_decompress() does when you don't select buffered-image mode.)
When you pass a target scan number equal to the current input scan number,
the image is displayed no faster than the current input scan arrives. The
final possibility is to pass a target scan number less than the current input
scan number; this disables the input/output interlock and causes the output
processor to simply display whatever it finds in the image buffer, without
waiting for input. (However, the library will not accept a target scan
number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance
through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
    do {
        absorb any waiting input by calling jpeg_consume_input()
        final_pass = jpeg_input_complete(&cinfo);
        adjust output decompression parameters if required
        jpeg_start_output(&cinfo, cinfo.input_scan_number);
        ...
        jpeg_finish_output()
    } while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
    for (;;) {
        absorb any waiting input by calling jpeg_consume_input()
        jpeg_start_output(&cinfo, cinfo.input_scan_number);
        ...
        jpeg_finish_output()
        if (jpeg_input_complete(&cinfo) &&
            cinfo.input_scan_number == cinfo.output_scan_number)
            break;
    }
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass,
then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data.
and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().

For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* do_block_smoothing can be changed before each call to jpeg_start_output().

This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.

2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.

3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different
working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant	Fixed color cube colormap
- enable_external_quant	Externally-supplied colormap
- enable_2pass_quant	Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it...
for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

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

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or
transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to
To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
```
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}

Code to load a fixed Huffman table is typically (for AC table "n"):

if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated
image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you
can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension").

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending
data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call jpeg_save_markers(cinfo, marker_code, length_limit) where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)
Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

```c
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression).
The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of block_size valid samples, and there must be a multiple of block_size sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data. Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use real downsampled data. (It is set TRUE by jpeg_set_defaults().)
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*block_size sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*block_size, and the return value will be exactly that amount (or possibly some multiple of that amount, in
future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as
\[
cinfo->comp_info[i].width_in_blocks*block_size \text{ samples per row}
\]
\[
cinfo->comp_info[i].height_in_blocks*block_size \text{ rows in image}
\]
after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than block_size samples. An example may help here. Assume 2h2v downsampling of YCbCr data, that is
\[
cinfo->comp_info[0].h_samp_factor = 2 \text{ for Y}
\]
\[
cinfo->comp_info[0].v_samp_factor = 2
\]
\[
cinfo->comp_info[1].h_samp_factor = 1 \text{ for Cb}
\]
\[
cinfo->comp_info[1].v_samp_factor = 1
\]
\[
cinfo->comp_info[2].h_samp_factor = 1 \text{ for Cr}
\]
\[
cinfo->comp_info[2].v_samp_factor = 1
\]
and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downscaled_width = 101 and width_in_blocks = 13 for Y, downscaled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle.
Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real
downsampled data (it is set TRUE by jpeg_read_header()). Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The
decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a
buffer of at least max_v_samp_factor*block_size scanlines (scanline counting
is the same as for raw-data compression). The buffer you pass must be large
enough to hold the actual data plus padding to DCT-block boundaries. As with
compression, any entirely dummy DCT blocks are not processed so you need not
allocate space for them, but the total scanline count includes them. The
above example of computing buffer dimensions for raw-data compression is
equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source
module suspends, jpeg_read_raw_data() will return 0. You can also use
buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
----------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT
coefficients. This facility is mainly intended for use in lossless
transcoding between different JPEG file formats. Other possible applications
include lossless cropping of a JPEG image, lossless reassembly of a
multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do
jpeg_read_header() as usual. But instead of calling jpeg_start_decompress()
and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the
entire image into a set of virtual coefficient-block arrays, one array per
component. The return value is a pointer to an array of virtual-array
descriptors. Each virtual array can be accessed directly using the JPEG
memory manager's access_virt_barray method (see Memory management, below,
and also read structure.txt's discussion of virtual array handling). Or,
for simple transcoding to a different JPEG file format, the array list can
just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in
normal array order (not JPEG zigzag order). The block arrays contain only
DCT blocks containing real data; any entirely-dummy blocks added to fill out
interleaved MCUs at the right or bottom edges of the image are discarded
during reading and are not stored in the block arrays. (The size of each
block array can be determined from the width_in_blocks and height_in_blocks
fields of the component's comp_info entry.) This is also the data format
expected by jpeg_write_coefficients().
When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This framlish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decomposition object.
The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

cjpeg(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg Suppress tables(), or set the tables’ individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library: long pass_counter; /* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */
During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)
--------------------------------------------
total_passes
ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management
-------------------
This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.
There are also alloc_sarray and alloc_barray routines that automatically
build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the
image's width, but not on its height, because the library ordinarily works
with "strip" buffers that are as wide as the image but just a few rows high.
Some operating modes (eg, two-pass color quantization) require full-image
buffers. Such buffers are treated as "virtual arrays": only the current strip
need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no
temporary files are used; virtual arrays are simply malloc()'d. Images bigger
than memory can be processed only if your system supports virtual memory.
The other memory manager back ends support temporary files of various flavors
and thus work in machines without virtual memory. They may also be useful on
Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for
its virtual arrays just big enough to stay within a "maximum memory" setting.
Your application can set this limit by setting cinfo->mem->max_memory_to_use
after creating the JPEG object. (Of course, there is still a minimum size for
the buffers, so the max-memory setting is effective only if it is bigger than
the minimum space needed.) If you allocate any large structures yourself, you
must allocate them before jpeg_start_compress() or jpeg_start_decompress() in
order to have them counted against the max memory limit. Also keep in mind
that space allocated with alloc_small() is ignored, on the assumption that
it's too small to be worth worrying about; so a reasonable safety margin
should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is
important to clean up the JPEG object properly to ensure that the temporary
files get deleted. (This is especially crucial with jmemdos.c, where the
"temporary files" may be extended-memory segments; if they are not freed,
DOS will require a reboot to recover the memory.) Thus, with these memory
managers, it's a good idea to provide a signal handler that will trap any
early exit from your program. The handler should call either jpeg_abort()
or jpeg_destroy() for any active JPEG objects. A handler is not needed with
jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either,
since the C library is supposed to take care of deleting files made with
tmpfile().

Memory usage
-----------
Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------
A number of compile-time options are available by modifying jmorecfg.h.
The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12. Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.) Run-time selection and conversion of data precision are currently not supported and may be added later. Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table.
(jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
---------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that:

- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error
handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
-------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600
bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/libjpeg.txt
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/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values. However, that problem does not arise if
 * we use floating point arithmetic.
 */
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/*
* jtrans.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

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* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

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/*
* jinclude.h
*
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* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

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*/
* jmemansi.c
 *
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
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*
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that you have the ANSI-standard library routine tmpfile().
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

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*/
* jcapistd.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcapistd.c
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/*
* transupp.h
*
* Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

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* rdgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
***********************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.
***********************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
  CompuServe Incorporated. GIF(sm) is a Service Mark property of
  CompuServe Incorporated."
*/

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/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

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/*
* jdapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapistd.c
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/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to output to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jerror.c

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/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapimin.c
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Tests included here are based on build output generated by the six-speed benchmark suite.

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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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.

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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
  jar/jersey/repackaged/com/google/common/collect/AbstractMultiset.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/AbstractMapBasedMultimap.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/Queues.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMultiset.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/Hashing.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/HashCode.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/Funnels.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/AbstractStreamingHashFunction.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/RegularContiguousSet.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/hash/Hasher.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/BoundType.java

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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/cache/Striped64.java

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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/RegularImmutableTable.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/SparseImmutableTable.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/Cut.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/MapMakerInternalMap.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/Futures.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedTimeoutException.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/reflect/TypeToken.java
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jar/jersey/repackaged/com/google/common/collection/ImmutableMultimap.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/ImmutableEntry.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/primitives/Doubles.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/ImmutatleCollection.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/FluentIterable.java
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  jar/jersey/repackaged/com/google/common/collection/FilteredMultimap.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3.jar/jersey/repackaged/com/google/common/collection/AllEqualOrdering.java
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  with some Sun-specific modifications. We're assuming that Sun is
  bundling BEA-StAX under the terms of the Apache License 2.0 and
  that the modifications are owned by Sun.

- We are assuming that these files are owned by Sun:
  openjdk/j2se/src/share/classes/**/resources/*.properties

The downloaded sources include a script that inserts proprietary
license headers into the source files it generates. The script
itself is GPL'd so we patched them to emit the GPL header. The
file is:
openjdk/j2se/make/java/nio/genExceptions.sh

--------------------------------------------------------------------------------
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jar/com/ctc/wstx/stax/WstxEventFactory.java
*/opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/evt/DefaultEventAllocator.java
*/opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/io/AsciiReader.java
*/opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/io/EBCDICCodec.java
*/opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/io/UTF8Reader.java
*/opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/io/UTF32Reader.java
*/opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/exc/WstxException.java
*/opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
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  jar/com/ctc/wstx/sw/OutputElementBase.java
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  jar/com/ctc/wstx/sax/WstxSAXParser.java
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  jar/com/ctc/wstx/sax/WrappedSaxException.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/NsInputElementStack.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/TypedReader.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDValidatorBase.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/dtd/DTDSchemaFactory.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/evt/WstxEventReader.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/util/ElementIdMap.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/msv/W3CSchemaFactory.java
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1.94 perl 5.22.1 9

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The End

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

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

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Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
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Thu, 17 Aug 2000 16:10:54 +1000.

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cpan/Win32API-File/*
dist/bignum/*
dist/ExtUtils-Install/*
dist/Math-BigInt/*
dist/Math-BigInt-FastCalc/*
dist/Math-BigRat/*
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.100 python-funcsigs 0.4-2
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* /opt/cola/permits/1151111103_1617788600.96/0/netty-buffer-4-1-47-final-5-jar/META-INF/native-image/io.netty/buffer/native-image.properties

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* /opt/cola/permits/1151111103_1617788600.96/0/netty-buffer-4-1-47-final-5-jar/META-INF/maven/io.netty/netty-buffer/pom.xml
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Manifest-Version: 1.0
Implementation-Title: Netty/Buffer
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfor
mance protocol servers and clients.
Automatic-Module-Name: io.netty.buffer
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.buffer
Implementation-Version: 4.1.47.Final
Built-By: root
Bnd-LastModified: 1583757017776
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional
org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.buffer;uses:="io.netty.util";version="4.1.47"
Bundle-Name: Netty/Buffer
Bundle-Version: 4.1.47.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_212
Implementation-URL: https://netty.io/netty-buffer/

Found in path(s):
* /opt/cola/permits/1151111103_1617788600.96/0/netty-buffer-4-1-47-final-5-jar/META-INF/MANIFEST.MF
1.103 caffeine 2.8.0

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File: orm-busy.trace.xz
Description: Database object access of a e-commerce web application during a busy daytime.

File: orm-night.trace.xz
Description: Database object access of a e-commerce web application during the night time.

File: web07.trace.xz
Description: Normalized access trace (HTTP requests) a product detail page in July 2013.

File: web12.trace.xz
Description: Normalized access trace (HTTP requests) on a product detail page in December 2013.

Format: The accessed objects comprise of a mixture of product inventory, availability per price and also customer data. Objects are keyed by type, id and a index (e.g. the 3rd price of a product). All data is normalized into numbers starting at 0 (or 1 for sub-ids) and then collapsed into a single integer consisting of,
  - Bits 27-31: type
  - Bits 9-26: id
  - Bits 0-9: index

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December 17, 2015
1.122 libdevmapper 1.02.1

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

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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may
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1.142 docopt 0.6.2
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1.144 nginx 1.12.0

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1.146 gir1.2-gdkpixbuf-2.0 2.32.2-1ubuntu1.6

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mecch/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

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

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1.157 python-setuptools 35.0.1

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1.185 kubernetes-component-base 0.21.0
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1.187 unzip 6.0 20ubuntu1.1

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
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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(); re-
placement 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
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   *
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"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."

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1.192 p11-kit 0.23.2 5~ubuntu16.04.1

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1.193 microsoft-build-runtime 4.5.50709

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1.202 glibc 2.23-0ubuntu11.2

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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Support for streaming Protocol Buffer messages for the Go language (golang).
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.204 ca-certificates-java 20160321ubuntu1

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* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/AbstractConnection.java
* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/LeakTrackingByteBufferPool.java
* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/IdleTimeout.java
* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/ChannelEndPoint.java
* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/ByteArrayEndPoint.java
* /opt/cola/permits/1151111069_1617788611.39/0/jetty-io-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/io/ByteBufferPool.java
1.207 neethi 3.0.3

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1.209 libxdmcp 1.1.2-1.1

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1.210 hiredis 0.13.3-2

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1.211 pycrypto 2.6.1 6ubuntu0.16.04.3

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Last updated: 2009-02-28

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1.212 uwsgi 2.0.12-5ubuntu3
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1.217 jsonmerge 1.1.0

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1.219 json-iterator-go 1.1.10

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1.221 zlib 1.2.11.dfsg 0ubuntu2

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1.222 go-runtime 1.15.2

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1.223 kerberos 1.16-2ubuntu0.2

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

The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/kgb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kpropllog.c

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

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

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

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

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

#ifndef BOOST_HAS_PRAGMA_ONCE
 # pragma once
#endif
```cpp
#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

template< class Integer, Integer Value >
struct integer
{
    static const Integer value = Value;
};
typedef bool_<true>        true_;
typedef bool_<false>       false_;
typedef true_  true_type;
typedef false_ false_type;

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

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

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

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

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

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

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

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

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

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

template<
    bool C
    , typename F1
    , typename F2
>
struct eval_if_c
    : if_c<false,F1,F2>::type
{ };
// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

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

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

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

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

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};
template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

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

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

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

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

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

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

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static int test(...);

struct DefaultWrap { typedef DefaultType TNAME; };

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

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

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

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

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

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

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

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
    template <typename Type> \
    struct TRAITS_NAME \
    { \
        struct BaseMixin \
        { \
            void FUNC_NAME(); \
        }; \
        struct Base : public Type, public BaseMixin { Base(); }; \
        template <typename T, T t> class Helper{}; \
        template <typename U> static ::boost::intrusive::detail::no_type  check(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
        static ::boost::intrusive::detail::yes_type check(...); \
        static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(check((Base*)(0))); \
    }
```
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \
\ntemplate <typename Type, class> \
struct TRAITS_NAME \
  : public TRAITS_NAME##_ignore_signature<Type> \
{};

//

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

} //namespace detail 
} //namespace intrusive 
} //namespace boost 

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

""" //BOOST_INTRUSIVE_DETAIL_MPL_HPP
\n<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.78.1">
<link rel="home" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="up" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%">
<tr>
<td align="top"><img alt="Boost C++ Libraries" width="277" height="86" src="../../../..//..//boost.png"></td>
<td align="center"><a href="../../../..//index.html">Home</a></td>
</tr>
</table>

---

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

Purely as an implementation detail, this means that <code class="computeroutput">true_type</code> inherits from <code class="computeroutput">true_</code>, <code class="computeroutput">false_type</code> inherits from <code class="computeroutput">false_</code>, and <code class="computeroutput">integral_constant</code> inherits from <code class="computeroutput">integral_c</code> (provided <code class="computeroutput">T</code> is not <code class="computeroutput">bool</code>).
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

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

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
end = max(dates)
fmt = '{0}' if start.year == end.year else '{0}-{1}'
line = 'Copyright ' + fmt.format(start.year, end.year) + '' + author
key = (start, author)
yield key, line
return map(itemgetter(1), sorted(f()))

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

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

    for f in all_files():
        fix_copyright(f)
[article Invalid copyright
[quickbook 1.5]
Maybe this should pass?

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

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-->

<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="../../../index.htm">
<imagedata align="left" 
    format="GIF"
    fileref="../../../boost.png"
    alt="C++ Boost" />
</ulink>-->
<!--hr /-->
<para>
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library. This notice is found in all source files related to the 
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</para>
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<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
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//////////////////////////////////////////////////////////////////////////////
// (C) Copyright Ion Gaztanaga 2005-2013. 
//
typedef bool_<true>        true_;  
typedef bool_<false>       false_;  

typedef true_  true_type;  
typedef false_ false_type;  

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

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

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

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

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

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

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

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

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

```
static true_t _dispatch(U);
static T &trigger();
public:
static const bool value = sizeof(_dispatch(trigger())) == sizeof(true_t);
};
#endif

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

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

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

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

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

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

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

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

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

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

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

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

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

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

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

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<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-/Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $" xmlns:xsi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
<year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstart-Name: boost
Source: http://sourceforge.net/projects/boost/files/boost
Files-Excluded: doc/images/valid-html401.png

Files: *
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.
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 * \*/
 */
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*/

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*/

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*/

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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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/\
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[article Copyright Test
[quickbook 1.5]
[copyright 1977,1985 Someone else]
]

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

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

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

#include <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> {};

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

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

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

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

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

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

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

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }
// identity is an extension: it is not part of the standard.

// template <class T>
// struct identity
//   : public std::unary_function<T,T>
// {
//   typedef T type;
//   const T& operator()(const T& x) const
//   { return x; }
//   
//   template<std::size_t S>
//   struct ls_zeros
//   {
//     static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
//   }
//   
//   template<>
//   struct ls_zeros<0>
//   {
//     static const std::size_t value = 0;
//   }
//   
//   template<>
//   struct ls_zeros<1>
//   {
//     static const std::size_t value = 0;
//   }
//   
//   template<>
//   struct ls_zeros<>
//   {
//     //namespace ipc
//     //namespace detail { }
Purely as an implementation detail, this means that `__true_type` inherits from [boost::mpl::true_], `__false_type` inherits from [boost::mpl::false_], and `__integral_constant<T, v>` inherits from [boost::mpl::integral_c<T,v>] (provided `T` is not `bool`)

// 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);
    }
"<DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">\n" "<html>
"<head>
"<title>Boost Licence Dependency Information</title>
if(m_module_list.size() == 1)
{ 
    os << " for " << *(m_module_list.begin());
}

os << "</title>
" "</head>
" "</body>
" "</H1>
" "<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 << " " << licenses.first[i->first].license_name << "" << licenses.first[i->first].license_name << "</a>
" ++i;
}

os << "<a href="#files">Files with no recognised license</a>
" "<a href="#authors">Files with no recognised copyright holder</a>
if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
" " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
" " <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
" " <a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
" " <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
" "<a href="#copyright">Copyright Holder Information</a>
"<a href="#depend">File Dependency Information</a>
"
// input Information:
//
// os << "\n";
if(m_scan_mode)
    os << "The following files were scanned for boost dependencies:
";
else
    os << "The following Boost modules were checked:
";

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

os << "The Boost path was: <code>" << m_boost_path.string() << "</code>\n";

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

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
    os << "\n";
    while(i != j)
    {

// title:
os << 
"<H3>" << licenses.first[i->first].license_name << "</H3>\n";
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
// Copyright holders:
os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" make_link_target(licenses.first[i->first].license_name)>(see details)</a>";
os << "</P></BLOCKQUOTE>\n";
++i;
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
";
while(i != j)
{
// title:
os <<
"<H3><A name="" make_link_target(licenses.first[i->first].license_name)
"">" << licenses.first[i->first].license_name << "</H3>\n";
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
// Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P><BLOCKQUOTE><P>
std::set<fs::path path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
os << *m << "<BR>\n";
++m;
}
os << "</P></BLOCKQUOTE>\n";
// Files using this license:
os << "<P>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 << "</P></BLOCKQUOTE>\n";
}
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P><BLOCKQUOTE><p>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost
Files that can be automatically converted to the Boost Software License

The following files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

Files that could be converted to the Boost Software License

The following files could be manually converted to the Boost Software License, but have not yet been:

Files that can NOT be converted to the Boost Software License because we need the permission of more authors:


}  
  os << split_path(m_boost_path, *i2) << "<br>
";  
  ++i2;  
}

os << "</p></BLOCKQUOTE>
";
//
// Output list of authors that we need permission for to move to the BSL.
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
";

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

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

os << "</p></BLOCKQUOTE>
";
//
// output a table of copyright information:
//

os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1">

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

os << "</table>
";
}

//
// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less> ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>\n";
} while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << " <I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
1.230 simplejson 3.14.0

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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

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

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

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

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

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

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

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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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sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

   a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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c) If distribution of the work is made by offering access to copy
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d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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It may happen that this requirement contradicts the license
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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!

1.237 libmatheval 1.1.11+dfsg-2
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For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

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.

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.

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"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.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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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,
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can regenerate automatically from other parts of the Corresponding
Source.

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

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".
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.

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 "aggregate" 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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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:

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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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Last updated: 2009-02-28

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  jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
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  jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
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  jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/OptionalSslHandler.java
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  jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslEngine.java

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  jar/io/netty/handler/ssl/PseudoRandomFunction.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
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  jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
  /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
  /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/traffic/TrafficCounter.java
  /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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  jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
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  jar/io/netty/handler/logging/LoggingHandler.java
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  jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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</Project>

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1.254 test 1.0
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Metadata-Version: 1.3
Name: test
Version: 1.0
Summary: Test module
Home-page: http://test.example.com/
Author: Paul Moore
Author-email: test@example.com
License: MIT License
Download-URL: http://example.com/test
Description: UNKNOWN
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Information Technology
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3

Found in path(s):
* /opt/cola/permits/1016057324_1610429998.88/0/test-1-0-dist-info-
zip/inputdir/packages_extracted/wheel/128/test-1.0.dist-info/METADATA

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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
  jar/javassist/bytecode/annotation/FloatMemberValue.java

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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/convert/TransformReadField.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/Analyzer.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/ClassMap.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/InnerClassesAttribute.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/expr/Cast.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/ast/Keyword.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/FieldType.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/FieldDecl.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Field.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Handler.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Keyword.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Keyword.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Keyword.java
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1.256 vim 7.4.1689-3ubuntu1.4
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==============================================================================

Kibaale Children's Centre

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

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

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

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

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

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

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

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

Others:
Transfer to one of these accounts if possible:

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

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

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

vim:tw=78:ts=8:ft=help:norl:
README.txt for version 7.4 of Vim: Vi IMproved.

WHAT IS VIM?

Vim is a greatly improved version of the good old UNIX editor Vi. Many new features have been added: multi-level undo, syntax highlighting, command line history, on-line help, spell checking, filename completion, block operations, script language, etc. There is also a Graphical User Interface (GUI) available. Still, Vi compatibility is maintained, those who have Vi "in the fingers" will feel at home. See "runtime/doc/vi_diff.txt" for differences with Vi.

This editor is very useful for editing programs and other plain text files. All commands are given with normal keyboard characters, so those who can type with ten fingers can work very fast. Additionally, function keys can be mapped to commands by the user, and the mouse can be used.

Vim runs under MS-Windows (NT, 2000, XP, Vista, 7, 8, 10), Macintosh, VMS and almost all flavours of UNIX. Porting to other systems should not be very difficult. Older versions of Vim run on MS-DOS, MS-Windows 95/98/Me, Amiga...
DOS, Atari MiNT, BeOS, RISC OS and OS/2. These are no longer maintained.

DISTRIBUTION

You can often use your favorite package manager to install Vim. On Mac and Linux a small version of Vim is pre-installed, you still need to install Vim if you want more features.

There are separate distributions for Unix, PC, Amiga and some other systems. This README.txt file comes with the runtime archive. It includes the documentation, syntax files and other files that are used at runtime. To run Vim you must get either one of the binary archives or a source archive. Which one you need depends on the system you want to run it on and whether you want or must compile it yourself. Check "http://www.vim.org/download.php" for an overview of currently available distributions.

COMPILING

If you obtained a binary distribution you don't need to compile Vim. If you obtained a source distribution, all the stuff for compiling Vim is in the "src" directory. See src/INSTALL for instructions.

INSTALLATION

See one of these files for system-specific instructions. Either in the READMEdir directory (in the repository) or the top directory (if you unpack an archive):

- README_ami.txt Amiga
- README_unix.txt Unix
- README_dos.txt MS-DOS and MS-Windows
- README_mac.txt Macintosh
- README_vms.txt VMS

There are more README_*.txt files, depending on the distribution you used.

DOCUMENTATION

The Vim tutor is a one hour training course for beginners. Often it can be started as "vimtutor". See ":help tutor" for more information.

The best is to use ":help" in Vim. If you don't have an executable yet, read "runtime/doc/help.txt". It contains pointers to the other documentation files. The User Manual reads like a book and is recommended to learn to use
Vim. See ":help user-manual".

COPYING

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation to help orphans in Uganda. Please read the file "runtime/doc/uganda.txt" for details (do ":help uganda" inside Vim).

Summary of the license: There are no restrictions on using or distributing an unmodified copy of Vim. Parts of Vim may also be distributed, but the license text must always be included. For modified versions a few restrictions apply. The license is GPL compatible, you may compile Vim with GPL libraries and distribute it.

SPONSORING

Fixing bugs and adding new features takes a lot of time and effort. To show your appreciation for the work and motivate Bram and others to continue working on Vim please send a donation.

Since Bram is back to a paid job the money will now be used to help children in Uganda. See runtime/doc/uganda.txt. But at the same time donations increase Bram's motivation to keep working on Vim!

For the most recent information about sponsoring look on the Vim web site:

http://www.vim.org/sponsor/

CONTRIBUTING

If you would like to help making Vim better, see the CONTRIBUTING.md file.

INFORMATION

The latest news about Vim can be found on the Vim home page:
http://www.vim.org/

If you have problems, have a look at the Vim documentation or tips:
http://www.vim.org/docs.php
http://vim.wikia.com/wiki/Vim_Tips_Wiki

If you still have problems or any other questions, use one of the mailing lists to discuss them with Vim users and developers:
http://www.vim.org/maillist.php
If nothing else works, report bugs directly:
Bram Moolenaar <Bram@vim.org>

MAIN AUTHOR

Send any other comments, patches, flowers and suggestions to:

Bram MoolenaarE-mail: Bram@vim.org
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1.258 gnutls 3.4.10

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### Constant-time SSSE3 AES core implementation.

## version 0.1

## By Mike Hamburg (Stanford University), 2009

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1.259 psutil 3.4.2-1ubuntu0.1

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1.260 lshw 02.17 1.1ubuntu3.5

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**1.261 pam 1.1.8-3.6ubuntu2.18.04.3**

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

Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
     close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily\n",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+            
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                goto finished;
+            
+            if (stat(flag, &s) != 0)
+             {
+                display_file(pamh, "/etc/legal");
+                mkdir(dir, 0700);
+                f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                        S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+                if (f>=0) close(f);
+            }
+
+            finished:
+            if (pam_modutil_regain_priv(pamh, &privs)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID back to %d\n", privs.old_uid);
+                retval = PAM_SESSION_ERR;
+            }
+
+            _pam_drop(flag);
+            _pam_drop(dir);
+        }
+
+    return retval;
+
+
+
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);
+
+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
+
 monstr本事 by J.H.M. Dassen (Ray) jdassen@debian.org on

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'openssl/ssl/tls13_enc.c',
'openssl/ssl/tls_srp.c',
'openssl/crypto/aes/aes_cbc.c',
'openssl/crypto/aes/aes_cfb.c',
'openssl/crypto/aes/aes_core.c',
'openssl/crypto/aes/aes_ecb.c',
'openssl/crypto/aes/aes_ige.c',
'openssl/crypto/aes/aes_misc.c',
'openssl/crypto/aes/aes_ofb.c',
'openssl/crypto/aes/aes_wrap.c',
'openssl/crypto/aria/aria.c',
'openssl/crypto/asn1/a_bitstr.c',
'openssl/crypto/asn1/a_d2i_fp.c',
'openssl/crypto/asn1/a_digest.c',
'openssl/crypto/asn1/a_dup.c',
'openssl/crypto/asn1/a_gentm.c',
'openssl/crypto/asn1/a_i2d_fp.c',
'openssl/crypto/asn1/a_int.c',
'openssl/crypto/asn1/a_mbstr.c',
'openssl/crypto/asn1/a_object.c',
'openssl/crypto/asn1/a_octet.c',
'openssl/crypto/asn1/a_print.c',
'openssl/crypto/asn1/a_sign.c',
'openssl/crypto/asn1/a_strex.c',

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 2898
'openssl/crypto/asn1/x_sig.c',
'openssl/crypto/asn1/x_spki.c',
'openssl/crypto/asn1/x_val.c',
'openssl/crypto/async/arch/async_null.c',
'openssl/crypto/async/arch/async_posix.c',
'openssl/crypto/async/arch/async_win.c',
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'openssl/crypto/async/async_err.c',
'openssl/crypto/async/async_wait.c',
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'openssl/crypto/bf/bf_ebc.c',
'openssl/crypto/bf/bf_ofb64.c',
'openssl/crypto/bf/bf_skey.c',
'openssl/crypto/bio/b_addr.c',
'openssl/crypto/bio/b_dump.c',
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'openssl/crypto/bio/b_sock.c',
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'openssl/crypto/bio/bf_buff.c',
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'openssl/crypto/bio/bf_nbio.c',
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'openssl/crypto/bio/bss_bio.c',
'openssl/crypto/bio/bss_conn.c',
'openssl/crypto/bio/bss_dgram.c',
'openssl/crypto/bio/bss_fd.c',
'openssl/crypto/bio/bss_file.c',
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'openssl/crypto/bio/bss_mem.c',
'openssl/crypto/bio/bss_null.c',
'openssl/crypto/bio/bss_sock.c',
'openssl/crypto/blake2/blake2b.c',
'openssl/crypto/blake2/blake2s.c',
'openssl/crypto/blake2/m_blake2b.c',
'openssl/crypto/blake2/m_blake2s.c',
'openssl/crypto/bn/bn_add.c',
'openssl/crypto/bn/bn_blind.c',
'openssl/crypto/bn/bn_const.c',
'openssl/crypto/bn/bn_ctx.c',
'openssl/crypto/bn/bn_depr.c',
'openssl/crypto/bn/bn_dh.c',
'openssl/crypto/bn/bn_div.c',
'openssl/crypto/bn/bn_err.c',

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 2900
'openssl/crypto/bn/bn_exp.c',
'openssl/crypto/bn/bn_exp2.c',
'openssl/crypto/bn/bn_gcd.c',
'openssl/crypto/bn/bn_gf2m.c',
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'openssl/crypto/bn/bn_kron.c',
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'openssl/crypto/bn/bn_shift.c',
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'openssl/crypto/bn/bn_sqrt.c',
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'openssl/crypto/camellia/cmll_cfb.c',
'openssl/crypto/camellia/cmll_ctr.c',
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'openssl/crypto/camellia/cmll_ofb.c',
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'openssl/crypto/cast/c_skey.c',
'openssl/crypto/cmac/cm_ameth.c',
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'openssl/crypto/ct/ct_policy.c',
'openssl/crypto/ct/ct_prn.c',
'openssl/crypto/ct/ct_sct.c',
'openssl/crypto/ct/ct_set_ctx.c',
'openssl/crypto/ct/ct_vfy.c',
'openssl/crypto/ct/ct_x509v3.c',
'openssl/crypto/ctype.c',
'openssl/crypto/cversion.c',
'openssl/crypto/des/cbc_cksm.c',
'openssl/crypto/des/cbc_enc.c',
'openssl/crypto/des/cfb64ede.c',
'openssl/crypto/des/cfb64enc.c',
'openssl/crypto/des/cfb_enc.c',
'openssl/crypto/des/ephb64enc.c',
'openssl/crypto/des/pcbc_enc.c',
'openssl/crypto/des/qud_cksm.c',
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'openssl/crypto/des/set_key.c',
'openssl/crypto/des/str2key.c',
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'openssl/crypto/dh/dh_rfc7919.c',
'openssl/crypto/dsa/dsa_ameth.c',
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'openssl/crypto/dsa/dsa_vrf.c',
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'openssl/crypto/ec/curve25519.c',
'openssl/crypto/ec/curve448/arch_32/f_impl.c',
'openssl/crypto/ec/curve448/curve448.c',
'openssl/crypto/ec/curve448/curve448_tables.c',
'openssl/crypto/ec/curve448/eddsa.c',
'openssl/crypto/ec/curve448/f_generic.c',
'openssl/crypto/ec/curve448/scalar.c',
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'openssl/crypto/ec/ec_oct.c',

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'openssl/crypto/evp/pmeth_lib.c',
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'openssl/crypto/idea/i_ecb.c',
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'openssl/crypto/lhash/lhash.c',
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'openssl/crypto/md5/md5_dgst.c',
'openssl/crypto/md5/md5_one.c',
'openssl/crypto/mdc2/mdc2_one.c',
'openssl/crypto/mdc2/mdc2dgst.c',
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'openssl/crypto/modes/ofb128.c',
'openssl/crypto/modes/wrap128.c',
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'openssl/crypto/o_time.c',
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'openssl/crypto/pkcs12/p12_p8e.c',
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'openssl/crypto/pkcs7/bio_pk7.c',
'openssl/crypto/pkcs7/pk7_asn1.c',
'openssl/crypto/pkcs7/pk7_attr.c',
'openssl/crypto/whrlpool/wp_block.c',
'openssl/crypto/whrlpool/wp_dgst.c',
'openssl/crypto/x509/by_dir.c',
'openssl/crypto/x509/by_file.c',
'openssl/crypto/x509/t_crl.c',
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'openssl/crypto/x509/x509_cmp.c',
'openssl/crypto/x509/x509_d2.c',
'openssl/crypto/x509/x509_def.c',
'openssl/crypto/x509/x509_err.c',
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'openssl/crypto/x509/x509rset.c',
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'openssl/crypto/x509/x509type.c',
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'openssl/crypto/x509/x_exten.c',
'openssl/crypto/x509/x_name.c',
'openssl/crypto/x509/x_pubkey.c',
'openssl/crypto/x509/x_req.c',
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'openssl/crypto/x509/x_x509a.c',
'openssl/crypto/x509v3/pcy_cache.c',
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'openssl/crypto/x509v3/pcy_lib.c',
'openssl/crypto/x509v3/pcy_map.c',
'openssl/crypto/x509v3/pcy_node.c',
'openssl/crypto/x509v3/pcy_tree.c',
'openssl/crypto/x509v3/v3_addr.c',
'openssl/crypto/x509v3/v3_admis.c',
'openssl/crypto/x509v3/v3_akey.c',
'openssl/crypto/x509v3/v3_akeya.c',

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 2910
openssl/crypto/x509v3/v3_alt.c,
openssl/crypto/x509v3/v3_asid.c,
openssl/crypto/x509v3/v3_bcons.c,
openssl/crypto/x509v3/v3_bitst.c,
openssl/crypto/x509v3/v3_conf.c,
openssl/crypto/x509v3/v3_cpol.c,
openssl/crypto/x509v3/v3_crld.c,
openssl/crypto/x509v3/v3_enum.c,
openssl/crypto/x509v3/v3_extku.c,
openssl/crypto/x509v3/v3_genn.c,
openssl/crypto/x509v3/v3_ia5.c,
openssl/crypto/x509v3/v3_info.c,
openssl/crypto/x509v3/v3_int.c,
openssl/crypto/x509v3/v3_lib.c,
openssl/crypto/x509v3/v3_ncons.c,
openssl/crypto/x509v3/v3_pci.c,
openssl/crypto/x509v3/v3_pcia.c,
openssl/crypto/x509v3/v3_pcons.c,
openssl/crypto/x509v3/v3_pku.c,
openssl/crypto/x509v3/v3_pmaps.c,
openssl/crypto/x509v3/v3_purp.c,
openssl/crypto/x509v3/v3_skey.c,
openssl/crypto/x509v3/v3_sxnet.c,
openssl/crypto/x509v3/v3_tlsf.c,
openssl/crypto/x509v3/v3_utl.c,
openssl/crypto/x509v3/v3_err.c,
openssl/engines/e_capi.c,
openssl/engines/e_padlock.c,

openssl_sources_BSD-x86: [.
./config/archs/BSD-x86/asm/crypto/aes/aesni-x86.s',
./config/archs/BSD-x86/asm/crypto/aes/vpaes-x86.s',
./config/archs/BSD-x86/asm/crypto/bf/bf-586.s',
./config/archs/BSD-x86/asm/crypto/bn/bn-586.s',
./config/archs/BSD-x86/asm/crypto/bn/co-586.s',
./config/archs/BSD-x86/asm/crypto/bn/x86-gf2m.s',
./config/archs/BSD-x86/asm/crypto/bn/x86-mont.s',
./config/archs/BSD-x86/asm/crypto/camellia/cml-x86.s',
./config/archs/BSD-x86/asm/crypto/chacha/chacha-x86.s',
./config/archs/BSD-x86/asm/crypto/des/crypt586.s',
./config/archs/BSD-x86/asm/crypto/des/des-586.s',
./config/archs/BSD-x86/asm/crypto/ee/ee_nist256-x86.s',
./config/archs/BSD-x86/asm/crypto/md5/md5-586.s',
./config/archs/BSD-x86/asm/crypto/modes/ghash-x86.s',
./config/archs/BSD-x86/asm/crypto/poly1305/poly1305-x86.s',
./config/archs/BSD-x86/asm/crypto/rc4/rc4-586.s',
./config/archs/BSD-x86/asm/crypto/ripemd/rmd-586.s',

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include_dirs:
   ['./config/archs/BSD-x86/asm/crypto/sha/sha1-586.s',
   './config/archs/BSD-x86/asm/crypto/sha/sha256-586.s',
   './config/archs/BSD-x86/asm/crypto/sha/sha512-586.s',
   './config/archs/BSD-x86/asm/crypto/whrlpool/wp-mmx.s',
   './config/archs/BSD-x86/asm/crypto/x86cpuid.s',
   './config/archs/BSD-x86/asm/engines/e_padlock-x86.s',
],

openssl_defines_BSD-x86: [
   'NDEBUG',
   'L_ENDIAN',
   'OPENSSL_ICP',
   'OPENSSL_CPUID_OBJ',
   'OPENSSL_BN_ASM_PART_WORDS',
   'OPENSSL_IA32_SSE2',
   'OPENSSL_BN_ASM_MONT',
   'OPENSSL_BN_ASM_GF2m',
   'SHA1_ASM',
   'SHA256_ASM',
   'SHA512_ASM',
   'RC4_ASM',
   'MD5_ASM',
   'RMD160_ASM',
   'AESNI_ASM',
   'VPAES_ASM',
   'WHIRLPOOL_ASM',
   'GHASH_ASM',
   'ECP_NISTZ256_ASM',
   'POLY1305_ASM',
],

openssl_cflags_BSD-x86: [
   '-Wa,--noexecstack',
   '-Wall -O3 -fomit-frame-pointer',
   '-pthread',
   '-Wall -O3 -fomit-frame-pointer',
],

openssl_ex_libs_BSD-x86: [
   '-pthread',
],

include_dirs: [
   './',
   './include',
   './crypto',
   './crypto/include/internal',
],

defines: ['<@(openssl_defines_BSD-x86)'],
cflags: ['<@(openssl_cflags_BSD-x86)'],
libraries: ['<@(openssl_ex_libs_BSD-x86)'],
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'openssl/crypto/bf/bf_skey.c',
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'openssl/crypto/bio/b_dump.c',
'openssl/crypto/bio/b_print.c',
'openssl/crypto/bio/b_sock.c',
'openssl/crypto/bio/b_sock2.c',
'openssl/crypto/bio/bf_buff.c',
'openssl/crypto/bio/bf_lbuf.c',
'openssl/crypto/bio/bf_null.c',
'openssl/crypto/bio/bio_cb.c',
'openssl/crypto/bio/bio_err.c',
'openssl/crypto/bio/bio_lib.c',
'openssl/crypto/bio/bio_meth.c',
'openssl/crypto/bio/bss_accept.c',
'openssl/crypto/bio/bss_bio.c',
'openssl/crypto/bio/bss_conn.c',
'openssl/crypto/bio/bss_dgram.c',
'openssl/crypto/bio/bss_fd.c',
'openssl/crypto/bio/bss_file.c',
'openssl/crypto/bio/bss_log.c',
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Open Source Used In HyperFlex HX Data Platform 5.0(1a)  2929
'openssl/crypto/evp/evp_pbe.c',
'openssl/crypto/evp/evp_pkey.c',
'openssl/crypto/evp/m_md2.c',
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'openssl/crypto/evp/m_md5_sha1.c',
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'openssl/crypto/evp/m_null.c',
'openssl/crypto/evp/m_ripemd.c',
'openssl/crypto/evp/m_sha1.c',
'openssl/crypto/evp/m_sha3.c',
'openssl/crypto/evp/m_sigver.c',
'openssl/crypto/evp/m_wp.c',
'openssl/crypto/evp/names.c',
'openssl/crypto/evp/p5_crypt.c',
'openssl/crypto/evp/p5_crypt2.c',
'openssl/crypto/evp/p_dec.c',
'openssl/crypto/evp/p_enc.c',
'openssl/crypto/evp/p_lib.c',
'openssl/crypto/evp/p_open.c',
'openssl/crypto/evp/p_seal.c',
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'openssl/crypto/hmac/hm_ameth.c',
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'openssl/crypto/hmac/hmac.c',
'openssl/crypto/idea/i_cbc.c',
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'openssl/crypto/kdf/hkdf.c',
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'openssl/crypto/lhash/lhash.c',
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'openssl/crypto/md4/md4_dgst.c',
'openssl/crypto/md5/md5_dgst.c',
'openssl/crypto/md5/md5_dgst.c'.

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 2935
'openssl/crypto/mdc2/mdc2_one.c',
'openssl/crypto/mdc2/mdc2dgst.c',
'openssl/crypto/mem.c',
'openssl/crypto/mem_dbg.c',
'openssl/crypto/mem_sec.c',
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'openssl/crypto/modes/cts128.c',
'openssl/crypto/modes/gcm128.c',
'openssl/crypto/modes/ocb128.c',
'openssl/crypto/modes/ofb128.c',
'openssl/crypto/modes/wrap128.c',
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'openssl/crypto/o_dir.c',
'openssl/crypto/o_fips.c',
'openssl/crypto/o_fopen.c',
'openssl/crypto/o_init.c',
'openssl/crypto/o_str.c',
'openssl/crypto/o_time.c',
'openssl/crypto/objects/o_names.c',
'openssl/crypto/objects/obj_dat.c',
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'openssl/crypto/ocsp/ocsp_asn.c',
'openssl/crypto/ocsp/ocsp_cl.c',
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'openssl/crypto/ocsp/ocsp_ext.c',
'openssl/crypto/ocsp/ocsp_ht.c',
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'openssl/crypto/ocsp/ocsp_srv.c',
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'openssl/crypto/pkcs12/p12_add.c',

[36x36]Open Source Used In HyperFlex HX Data Platform 5.0(1a)  2936
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Open Source Used In HyperFlex HX Data Platform 5.0(1a) 2837
'openssl/crypto/x509/x_exten.c',
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'openssl/crypto/x509v3/pcy_cache.c',
'openssl/crypto/x509v3/pcy_data.c',
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'openssl/crypto/x509v3/pcy_node.c',
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'openssl/crypto/x509v3/v3_admis.c',
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'.config/archs/BSD-x86_64/asm/crypto/aesni-sha256-x86_64.s',
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'.config/archs/BSD-x86_64/asm/crypto/x86_64cpuid.s',
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],
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'NDEBUG',
'L_ENDIAN',
'OPENSSL_PIC',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_MONT5',
'OPENSSL_BN_ASM_GF2m',
'SHA1_ASM',
'SHA256_ASM',
'SHA256_ASM',
'KECCAK1600_ASM',
'RC4_ASM',
'MD5_ASM',
'AESNI_ASM',
'VPAES_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
}
'X25519_ASM',
'POLY1305_ASM',
],
'openssl_cflags_BSD-x86_64': [
'-Wa,--noexecstack',
'-Wall -O3',
'-pthread',
'-Wall -O3',
],
'openssl_ex_libs_BSD-x86_64': [
'-pthread',
],
'include_dirs': [
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'./include',
'./crypto',
'./crypto/include/internal',
],
'defines': ['<@(openssl_defines_BSD-x86_64)'],
'cflags': ['<@(openssl_cflags_BSD-x86_64)'],
'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
}

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- Strongtalk assembler, the basis of the files assembler-arm-inl.h,
assembler-arm.cc, assembler-arm.h, assembler-ia32-inl.h, assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h, assembler-x64.cc, assembler-x64.h, assembler-mips-inl.h, assembler-mips.cc, assembler-mips.h, assembler.cc and assembler.h.

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- The Wasm C/C++ API headers, located at third_party/wasm-api/wasm.{h,hh}
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'openssl/crypto/bio/bss_file.c',
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'openssl/crypto/bio/bss_sock.c',
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'openssl/crypto/blake2/m_blake2s.c',
'openssl/crypto/bn/bn_add.c',
'openssl/crypto/bn/bn_blind.c',
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'openssl/crypto/bn/bn_mod.c',
'openssl/crypto/bn/bn_mont.c',
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'openssl/crypto/bn/bn_sqrt.c',
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'openssl/crypto/buffer/buffer.c',
'openssl/crypto/camellia/cmll_cfb.c',
'openssl/crypto/camellia/cmll_ctr.c',
'openssl/crypto/camellia/cmll_ebc.c',
'openssl/crypto/camellia/cmll_ecb.c',

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'openssl/crypto/ebcdic.c',
'openssl/crypto/ec/curve25519.c',
'openssl/crypto/ec/curve448/arch_32/f_impl.c',
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'openssl/crypto/ec/curve448/eddsa.c',
'openssl/crypto/ec/curve448/f_generic.c',
'openssl/crypto/ec/curve448/scalar.c',
'openssl/crypto/ec/ec2_oct.c',
'openssl/crypto/ec/ec2_smpl.c',
'openssl/crypto/ec/ec_ameth.c',
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'openssl/crypto/ec/ecp_nistp256.c',
'openssl/crypto/ec/ecp_nistp521.c',
'openssl/crypto/ec/ecp_nistputil.c',
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'openssl/crypto/engine/eng_list.c',
'openssl/crypto/engine/eng_openssl.c',
'openssl/crypto/engine/eng_pkey.c',
'openssl/crypto/engine/eng_rdrand.c',
'openssl/crypto/engine/eng_table.c',
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'openssl/crypto/engine/tb_ec戏曲.c',
'openssl/crypto/engine/tb_pkmeth.c',
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'openssl/crypto/evp/e_seed.c',
'openssl/crypto/evp/e_sm4.c',
'openssl/crypto/evp/e_xcbc_d.c',
'openssl/crypto/evp/encode.c',
'openssl/crypto/evp/evp_cnf.c',
'openssl/crypto/evp/evp_enc.c',

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openssl/crypto/evp/evp_err.c,
openssl/crypto/evp/evp_key.c,
openssl/crypto/evp/evp_lib.c,
openssl/crypto/evp/evp_pbe.c,
openssl/crypto/evp/evp_pkey.c,
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openssl/crypto/evp/m_md4.c,
openssl/crypto/evp/m_md5.c,
openssl/crypto/evp/m_md5_sha1.c,
openssl/crypto/evp/m_mdc2.c,
openssl/crypto/evp/m_null.c,
openssl/crypto/evp/m_ripemd.c,
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openssl/crypto/evp/m_sigver.c,
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openssl/crypto/evp/pmeth_gn.c,
openssl/crypto/evp/pmeth_lib.c,
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openssl/crypto/idea/i_cbc.c,
openssl/crypto/idea/i_cfb64.c,
openssl/crypto/idea/i_ecb.c,
openssl/crypto/idea/i_ofb64.c,
openssl/crypto/idea/i_skey.c,
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openssl/crypto/kdf/kdf_err.c,
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openssl/crypto/kdf/tls1_prf.c,
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'openssl/crypto/modes/ofb128.c',
'openssl/crypto/modes/wrap128.c',
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'openssl/crypto/o_init.c',
'openssl/crypto/o_str.c',
'openssl/crypto/o_time.c',
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'openssl/crypto/x509v3/pcy_tree.c',
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'openssl/crypto/x509v3/v3_extku.c',
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'openssl/crypto/x509v3/v3_ia5.c',
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'openssl/crypto/x509v3/v3_pci.c',
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'openssl/crypto/x509v3/v3_pcons.c',
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'openssl/crypto/x509v3/v3_pmaps.c',
'openssl/crypto/x509v3/v3_prm.c',
'openssl/crypto/x509v3/v3_purp.c',
'openssl/crypto/x509v3/v3_skey.c',
'openssl/crypto/x509v3/v3_sxnet.c',
'openssl/crypto/x509v3/v3_tlsf.c',
'openssl/crypto/x509v3/v3_utl.c',
'openssl/crypto/x509v3/v3err.c',

'openssl/engines/e_capi.c',
'openssl/engines/e_padlock.c',
],

'openssl_sources_BSD-x86': [
'./config/archs/BSD-x86/asm_avx2/crypto/aes/aesni-x86.s',
'./config/archs/BSD-x86/asm_avx2/crypto/aes/vpaes-x86.s',
'./config/archs/BSD-x86/asm_avx2/crypto/bf/bf-586.s',
'./config/archs/BSD-x86/asm_avx2/crypto/bn/bn-586.s',
'./config/archs/BSD-x86/asm_avx2/crypto/bn/co-586.s',
'./config/archs/BSD-x86/asm_avx2/crypto/bn/x86-gf2m.s',
'./config/archs/BSD-x86/asm_avx2/crypto/bn/x86-586.s',
'./config/archs/BSD-x86/asm_avx2/crypto/camellia/camellia-x86.s',
'./config/archs/BSD-x86/asm_avx2/crypto/chacha/chacha-x86.s',
'./config/archs/BSD-x86/asm_avx2/crypto/crypt586.s',
'./config/archs/BSD-x86/asm_avx2/crypto/des/des-586.s',
'./config/archs/BSD-x86/asm_avx2/crypto/ecn/ecn-x86.s',
'./config/archs/BSD-x86/asm_avx2/crypto/md5/md5-586.s',
'./config/archs/BSD-x86/asm_avx2/crypto/modes/ghash-x86.s',
'./config/archs/BSD-x86/asm_avx2/crypto/polym1305/polym1305-x86.s',
'./config/archs/BSD-x86/asm_avx2/crypto/rc4/rc4-586.s',
'./config/archs/BSD-x86/asm_avx2/crypto/ripemd/rmd-586.s',
'./config/archs/BSD-x86/asm_avx2/crypto/sha/sha1-586.s',
'./config/archs/BSD-x86/asm_avx2/crypto/sha/sha256-586.s',
'./config/archs/BSD-x86/asm_avx2/crypto/sha/sha512-586.s',
'./config/archs/BSD-x86/asm_avx2/crypto/whirlpool/wp-mmx.s',
'./config/archs/BSD-x86/asm_avx2/crypto/x86cpuid.s',
'./config/archs/BSD-x86/asm_avx2/engines/e_padlock-x86.s',
],

'openssl_defines_BSD-x86': [
'NDEBUG',
'L_ENDIAN',
'OPENSSL_PIC',
'OPENSSL_CPUID_OBJ',
'OPENSSL_BN_ASM_PART_WORDS',
'OPENSSL_IA32_SSE2',
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_GF2m',
'SHA1_ASM',
'SHA256_ASM',
'SHA512_ASM',
'RC4_ASM',
'MD5_ASM',
'RMD160_ASM',
'AESNI_ASM',
'VPAES_ASM',
'WHIRLPOOL_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
]
'POLY1305_ASM',
],
'openssl_cflags_BSD-x86': [
'Wa,-noexecstack',
'-Wall -O3 -fomit-frame-pointer',
'-pthread',
'-Wall -O3 -fomit-frame-pointer',
],
'openssl_ex_libs_BSD-x86': [
'-pthread',
],
'include_dirs': [
'.',
'./include',
'./crypto',
'./crypto/include/internal',
],
'defines': ['<@(openssl_defines_BSD-x86)]],
'cflags': ['<@(openssl_cflags_BSD-x86)],
'libraries': ['<@(openssl_ex_libs_BSD-x86)],
'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)]]
}
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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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2.2 and above  2.1.1  2001-now  PSF  yes

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=== src/compat.h src/compat-inl.h ===

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'openssl/crypto/kdf/hkdf.c',
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'openssl/crypto/kdf/scrypt.c',
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'openssl/crypto/lhash/lb_stats.c',
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'openssl/crypto/md4/md4_dgst.c',
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'openssl/crypto/md5/md5_dgst.c',
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Open Source Used In HyperFlex HX Data Platform 5.0(1a) 3063
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'openssl/crypto/x509v3/v3_utl.c',
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'openssl/engines/e_capi.c',
'openssl/engines/e_padlock.c',

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'./config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-mb-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/aesni-sha1-x86_64.s',
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'./config/archs/BSD-x86_64/asm_avx2/crypto/wlpool/wlpool-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/x86_64cpuid.s',
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'L_ENDIAN',
'OPENSSL_PIC',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
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'OPENSSL_BN_ASM_MONT5',

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'OPENSSL_BN_ASM_GF2m',
'SHA1_ASM',
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'KECCAK1600_ASM',
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'MD5_ASM',
'AESNI_ASM',
'VPAES_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
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'openssl_cflags_BSD-x86_64': [
'--noexecstack',
'-Wall -O3',
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'openssl_ex_libs_BSD-x86_64': [
'-pthread',
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'include_dirs': [
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'defines': ['<(openssl_defines_BSD-x86_64)]',
'cflags': ['<(openssl_cflags_BSD-x86_64)]',
'libraries': ['<(openssl_ex_libs_BSD-x86_64)]',
'sources': ['<(openssl_sources)', '<(openssl_sources_BSD-x86_64)]',
}

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'openssl/apps/openssl.c',
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1.272 libxtst 1.2.2-1

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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
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.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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5. A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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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.

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

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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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That's all there is to it!

1.275 pyparsing 2.0.3+dfsg1 1ubuntu0.1

1.275.1 Available under license:

This package was debianized by Tommi Virtanen tv@debian.org on Sat, 26 Jun 2004 00:32:52 +0300.

It was originally downloaded from http://pyparsing.sourceforge.net/

Upstream Author: Paul McGuire <ptmcg@users.sourceforge.net>

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1.276 ndg-httpsclient 0.4.0-3
1.276.1 Available under license:

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# # MANIFEST.in file to enable inclusion of unit test data files and config # # NDG HTTPS Client Package # # P J Kershaw 17/01/12 # # Copyright (C) 2012 STFC # # Licence: BSD - See LICENCE file for details recursive-include ndg/httpsclient/test *.crt *.key *.sh README recursive-include documentation Makefile

Found in path(s):
* /opt/cola/permits/1141637284_1615091299.87/0/ndg-httpsclient-0-4-0-orig-1-tar-gz/ndg_httpsclient-0.4.0/MANIFEST.in

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: ndg-httpsclient
Version: 0.4.0
Summary: Provides enhanced HTTPS support for httplib and urllib2 using PyOpenSSL
Home-page: https://github.com/cedadev/ndg_httpsclient/
Author: Richard Wilkinson and Philip Kershaw
Author-email: Philip.Kershaw@stfc.ac.uk
License: BSD - See LICENCE file for details
Description: This is a HTTPS client implementation for httplib and urllib2 based on PyOpenSSL. PyOpenSSL provides a more fully featured SSL implementation over the default provided with Python and importantly enables full verification of the SSL peer.
Releases
========

0.4.0
-----
* Made dual compatible with Python 2 / 3.

0.3.3
-----
* Fix to add in AnotherName for ``subjectAltNames`` field - added for support for CACert issued
certs (thanks to Gu1).
* Fix to HTTP Basic Auth option for ``ndg.httpsclient.utils.main``
* Fix to ``ServerSSLCertVerification`` so that it can pass a function-based callback instead of using
``__call__``. In newer versions of OpenSSL (>= 0.14) the latter failed because of a request for ``__name__``
attribute.

0.3.2
-----
* Fix to SubjectAltNames support check - should only be enabled if pyasn1 is
installed.
* Fix to open_url: HTTP Request object was being created inside if headers is
None block - now corrected to create regardless.
* Added http basic auth support to script. (Thanks to Willem van Engen)

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-----
* extended utils functions to support keyword for passing additional urllib2
handlers.

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* Added ndg.httpsclient.utils.fetch_stream_from_url function and added
parameter for data to post in open_url and fetch_* methods.
* fix to ndg.httpsclient.utils module _should_use_proxy and open_url functions

0.2.0
-----
* added support for SSL verification with subjectAltNames using pyasn1
* fixed minor bug - SSL cert DN prefix matching

0.1.0
-----
Initial release

Prerequisites
=============
This has been developed and tested for Python 2.6 and 2.7 with pyOpenSSL 0.13 and 0.14.
Version 0.4.0 tested with pyOpenSSL 0.15.1 and Python 2.7 and 3.4. Note that proxy support
is only available from Python 2.6.2 onwards. pyasn1 is required for correct SSL verification with subjectAltNames.

Installation
=============
Installation can be performed using easy_install or pip.

Running ndg_httpclient
======================
A simple script for fetching data using HTTP or HTTPS GET from a specified URL.

Parameter:
```
```
The URL of the resource to be fetched

Options:
```
-h, --help`
Show help message and exit.
```
-c FILE, --certificate=FILE`
Certificate file - defaults to ``$HOME/credentials.pem``
```
-k FILE, --private-key=FILE`
Private key file - defaults to the certificate file
```
-t DIR, --ca-certificate-dir=DIR`
Trusted CA certificate file directory.
```
-d, --debug`
Print debug information - this may be useful in solving problems with HTTP or HTTPS access to a server.
```
-p FILE, --post-data-file=FILE`
POST data file
```
-f FILE, --fetch=FILE`
Output file
```
-n, --no-verify-peer`
Skip verification of peer certificate.

Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
Classifier: Environment :: Console
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: End Users/Desktop
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Science/Research
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: Microsoft :: Windows
Classifier: Operating System :: POSIX :: Linux
Classifier: Programming Language :: Python
Classifier: Topic :: Security
Classifier: Topic :: Internet
Classifier: Topic :: Scientific/Engineering
Classifier: Topic :: System :: Distributed Computing
Classifier: Topic :: System :: Systems Administration :: Authentication/Directory
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /opt/cola/permits/1141637284_1615091299.87/0/ndg-httpsclient-0.4.0-orig-1-tar-gz/ndg_httpsclient-0.4.0/ndg_httpsclient.egg-info/PKG-INFO

No license file was found, but licenses were detected in source scan.

try:
    from setuptools import setup, find_packages
except ImportError:
    from ez_setup import use_setuptools
    use_setuptools()
    from setuptools import setup, find_packages

_long_description = ''
This is a HTTPS client implementation for httplib and urllib2 based on PyOpenSSL. PyOpenSSL provides a more fully featured SSL implementation over the default provided with Python and importantly enables full verification of the SSL peer.

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Show help message and exit.

``-c FILE, --certificate=FILE``
Certificate file - defaults to ``$HOME/credentials.pem``

``-k FILE, --private-key=FILE``
Private key file - defaults to the certificate file

``-t DIR, --ca-certificate-dir=DIR``
Trusted CA certificate file directory.

``-d, --debug``
Print debug information - this may be useful in solving problems with HTTP or HTTPS access to a server.

``-p FILE, --post-data-file=FILE``
POST data file

``-f FILE, --fetch=FILE``
Output file

``-n, --no-verify-peer``
Skip verification of peer certificate.

```python
setup(
    name='ndg_httpsclient',
    version="0.4.0",
    description='Provides enhanced HTTPS support for httplib and urllib2 using ' +
                 'PyOpenSSL',
    author='Richard Wilkinson and Philip Kershaw',
    author_email='Philip.Kershaw@stfc.ac.uk',
    url='https://github.com/cedadev/ndg_httpsclient/',
    long_description=_long_description,
    license='BSD - See LICENCE file for details',
    namespace_packages=['ndg'],
    packages=find_packages(),
    package_dir={'ndg.httpsclient': 'ndg/httpsclient'},
    package_data={
        'ndg.httpsclient': [
            'test/README',
            'test/scripts/*_sh',
            'test/pki/localhost.*',
            'test/pki/ca/*.0'
        ],
    },
)```
install_requires = ['PyOpenSSL'],
extras_require = {'subjectAltName_support': 'pyasn1'},
classifiers = [
    'Development Status :: 3 - Alpha',
    'Environment :: Console',
    'Environment :: Web Environment',
    'Intended Audience :: End Users/Desktop',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'Intended Audience :: Science/Research',
    'License :: OSI Approved :: BSD License',
    'Natural Language :: English',
    'Operating System :: Microsoft :: Windows',
    'Operating System :: POSIX :: Linux',
    'Programming Language :: Python',
    'Topic :: Security',
    'Topic :: Internet',
    'Topic :: Scientific/Engineering',
    'Topic :: System :: Distributed Computing',
    'Topic :: System :: Systems Administration :: Authentication/Directory',
    'Topic :: Software Development :: Libraries :: Python Modules'
],
zip_safe = False,
entry_points = {
    'console_scripts': ['ndg_httpclient = ndg.httpsclient.utils:main',
        ],
}

Found in path(s):
* /opt/cola/permits/1141637284_1615091299.87/0/ndg-httpsclient-0.4.0-orig-1-tar-gz/ndg_httpsclient-
0.4.0/setup.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: ndg_httpsclient
Version: 0.4.0
Summary: Provides enhanced HTTPS support for httplib and urllib2 using PyOpenSSL
Home-page: https://github.com/cedadev/ndg_httpsclient/
Author: Richard Wilkinson and Philip Kershaw
Author-email: Philip.Kershaw@stfc.ac.uk
License: BSD - See LICENCE file for details
Description:
    This is a HTTPS client implementation for httplib and urllib2 based on
    PyOpenSSL. PyOpenSSL provides a more fully featured SSL implementation over the
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-----
* extended utils functions to support keyword for passing additional urllib2
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* fix to ndg.httpsclient.utils module _should_use_proxy and open_url functions

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Certificate file - defaults to ``$HOME/credentials.pem``

``-k FILE, --private-key=FILE``
Private key file - defaults to the certificate file

``-t DIR, --ca-certificate-dir=DIR``
Trusted CA certificate file directory.

``-d, --debug``
Print debug information - this may be useful in solving problems with HTTP or HTTPS access to a server.

``-p FILE, --post-data-file=FILE``
POST data file

``-f FILE, --fetch=FILE``
Output file

``-n, --no-verify-peer``
Skip verification of peer certificate.

Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
Classifier: Environment :: Console
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: End Users/Desktop
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Science/Research
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: Microsoft :: Windows
Classifier: Operating System :: POSIX :: Linux
Classifier: Programming Language :: Python
Classifier: Topic :: Security
Classifier: Topic :: Internet
Classifier: Topic :: Scientific/Engineering
Classifier: Topic :: System :: Distributed Computing
Classifier: Topic :: System :: Systems Administration :: Authentication/Directory
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /opt/cola/permits/1141637284_1615091299.87/0/ndg-httpsclient-0-4-0-orig-1-tar-gz/ndg_httpsclient-0.4.0/PKG-INFO
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Found in path(s):
* /opt/cola/permits/1141637284_1615091299.87/0/ndg-httpsclient-0-4-0-orig-1-tar-gz/ndg_httpsclient-0.4.0/documentation/Makefile

1.277 xz 5.2.2 1.3

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Version 2.1, February 1999

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

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1.278 certifi 2020.6.20

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cia-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:
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1.279 xmltodict 0.12.0

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1.280 glibc 2.19

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm
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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt
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E-Mail: simone.bordet@gmail.com
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Version: GnuPG v1.4.10 (GNU/Linux)

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Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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Version: GnuPG v1.4.1 (Darwin)

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Positions: Chief Operational Officer
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<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
</tr>
</tbody>
</table>

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Full name: Julian Anthony Fox Gosnell
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1.287 python-pyasn1-modules 0.0.7-0.1

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1.290 gccgo 6.0.1-0ubuntu1

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.Taglets.Taglet;

import com.sun.javaDoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 *
 */

public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
    if (tags[i].text().length() > 0) {
        haveValidTag = true;
    }
}

if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright ℄ " + tags[i].text() + "; "+ tags[i].text() + "</i></dt>\n";
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}

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

That's all there is to it!

// DO NOT EDIT THIS FILE - it is machine generated -* c++ -*

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;

class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{
public:
Permition(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
static const jlong serialVersionUID = -5636570222231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

@include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
class Permission;

class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{
public:
Permition(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
static const jlong serialVersionUID = -5636570222231596674LL;
::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
public:
static ::java::lang::Class class$;
};
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@item
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/* Permission.java -- The superclass for all permission objects

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exception statement from your version. */

package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
The most important method in this class is `implies`. This checks whether if one has this permission, then the specified permission is also implied. As a conceptual example, consider the permissions "Read All Files" and "Read File foo". The permission "Read All Files" implies that the caller has permission to read the file foo.

`Permission`'s must be immutable - do not change their state after creation.

@since 1.1
@status updated to 1.4

```
public abstract class Permission implements Guard, Serializable {

/**
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 */
public Permission(String name) {
    this.name = name;
}
```
/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>(" + getClass().getName() + "," + getName() + "," + getActions
 * + ")</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    string = string.append(' ,');
    string = string.append(getActions());
    string = string.append(')');

    return string.toString();
}
if (!getActions().equals(""))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
} // class Permission

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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#!/usr/bin/python
#
# Copyright (C) 2013-2016 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.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess
class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
            sys.stderr.write(string + '
')
            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',
            'decomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltswear.m4',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',

            # Skip FSF mission statement, etc.
            'gnu.texi',
            'funding.texi',
            'appendix_free.xml',

            # Skip imported texinfo files.
            'texinfo.tex',
        })
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'\t')

    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True

    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True

    return False
def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

    # Characters in a range of years. Include ‘.’ for typos.
    ranges = '[0-9][\?\-0-9.,\s]\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 (self.year_re
        # 1: 'Copyright (C)', etc.
        '((C)c)opyright'
        '([Cc]opyrights+([Cc])' '
        '([Cc]opyrights+%s' '
        '([Cc]opyrights+&copy;' '
        '([Cc]opyrights+@copyright\(\)]' '
        'copyright = u"' '
        '@set\s+copyright[\w-]+''
        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\s*(?:' + ranges + '.*?'
        '\[\w\-\])\s*')

    # 3: 'by ', if used
    '(by\s+)?'

    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '(\s* +' + name + '\s? + name + ')\s*')

    # 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
        elif len (string) == 4:
            return year
        raise self.BadYear (string)

    def year_range (self, years):
        year_list = [self.parse_year (year)  
                      for year in self.year_re.findall (years)]
        assert len (year_list) > 0
        return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
                'trailing characters in @set:'
            )
+ after_years)
        return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break
        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None
        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match
        holder = match.group(4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report(pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
        elif holder not in self.holders:
            self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)
        else:
            # See whether the copyright is associated with the package
            # author.
            canon_form = self.holders[holder]
            if not canon_form:
                return (False, orig_line, next_line)

            # Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
    + canon_form
    + line[match.end (4):])

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
    return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
while line:
    next_line = None
    # Leave filtered-out lines alone.
    if not (line_filter and line_filter.match(line)):
        match = self.copyright_re.search(line)
        if match:
            res = self.update_copyright(dir, filename, filter,
                                         file, line, match)
            (this_changed, line, next_line) = res
            changed = changed or this_changed

    # Check for copyright lines that might have slipped by.
    elif self.other_copyright_re.search(line):
        self.errors.report(pathname,
                           'unrecognised copyright: %s'
                           % line.strip())
        lines.append(line)
        line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open(tmp_pathname, 'w') as file:
            for line in lines:
                file.write(line)
        if self.use_quilt:
            subprocess.call(['quilt', 'add', pathname])
        os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in range(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...\n\n' % sys.argv[0])
        'Options:\n% s
' % sys.argv[0])
    format = '%-15s %s\n'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('\nDirectories:
')
    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
        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 LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

# Handled separately.
'testsuite',
}

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        )

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        )

        self.own_files |= set (
            # Contains markup around the copyright owner.
            'spine.xml',
        )

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)
self.add_external_author ('ARM')
self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks.')
self.add_external_author ('Faraday Technology Corp.')
self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
self.add_external_author ('Information Technology Industry Council.')
self.add_external_author ('James Theiler, Brian Gough')
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self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeiine Associates, Inc.')
self.add_external_author ('Regents of the University of California.')
self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author ('Stephen L. Moshier')
self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors.')
self.add_external_author ('The Regents of the University of California.')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto.')

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 ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = ['gcc',
'libada',
'libatomic',
'libbacktrace',
'libc++',
'libdecnumber',
'libgcc',
'libgfortran',
'libgomp',
'libitm',
'libmudflap',
'libobjc',
'libstdc++-v3',
]

GCCCmdLine().main()
1f+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMEjava/lang/String;
ConstantValue
Copyright:<init>()VCode
LineNumberTable
LocalVariableTable
this-Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorMethod
inOverview
Package
inType
isInlineTag
register(Ljava/util/Map;)V

&(*)
java/util/Map+.put8(Ljava/lang/Object;Ljava/lang/Object;)

tagletMapLjava/util/Map;copyTagletToString)(Lcom/sun/javadoc/Tag;Ljava/lang/String;3com/sun/javadoc/Tag
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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
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@var{signature of Ty Coon}, 1 April 1990
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java/security/acl/Permission.java/lang/Object/equals(Ljava/lang/Object;)ZtoString()Ljava/lang/String;

SourceFilePermission.java

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(aged@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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   <http://www.gnu.org/licenses/>. */
/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
define ASM_SHORT "\t.word\t"
define ASM_LONG "\t.long\t"
define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
  fprintf (FILE, \"t.space \" HOST_WIDE_INT_PRINT_UNSIGNED\"n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (\".comm \", (FILE)),\n    assemble_name ((FILE), (NAME)),\n    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)),\n    assemble_name ((FILE), (NAME)),\n    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
", (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)  
  if (((LOG)!=0) fprintf ((FILE), 
"#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  
  sprintf ((BUF), 
 /* 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 USER_LABEL_PREFIX "_"  

/* 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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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is not the same as the class
 * java.security.Permission.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return true if the specified permission is the same as this one, false otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this Permission as a String representing this permission.
 *
 * @return A String representing this permission.
 */
}
String toString();
}

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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 state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<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 does terminal interaction, make it output a short
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<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
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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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b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.


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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.

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*- 

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__ 
#define __gnu_javax_sound_AudioSecurityManager$Permission__ 

#pragma interface 

#include <java/lang/Enum.h> 
#include <gcj/array.h> 

extern "Java" 
{
namespace gnu 
{
 namespace javax 
{
 namespace sound 
{
 class AudioSecurityManager$Permission; 
 }
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum 
{
 AudioSecurityManager$Permission(::java::lang::String *, jint); 
 public: 
 static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values(); 
 static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *); 
 static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY; 

static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

1.291 evanphx-json-patch 4.9.0+incompatible

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1.292 attr 2.4.47-2build1

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Version 2.1, February 1999

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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.

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

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

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

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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
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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.

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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1.293 pyasn1 0.4.5

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ASN.1 library for Python
========================================

.. toctree::
:maxdepth: 1

Abstract Syntax Notation One (\textit{ASN.1}
</http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>\_) 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 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 <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/protobuf>`_ 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::
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    /example-use-case

Download & Install
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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::
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    /changelog

License
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Getting help
------------


Books on ASN.1
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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.

Found in path(s):
* `/opt/ws_local/PERMITS_SQL/1063015436_1592948938.14/0/pyasn1-0-4-5-1-tar-gz/pyasn1-0.4.5/docs/source/contents.rst`

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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
}
```

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`):

```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
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
>>> 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.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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1.295 jackson-jaxrs 2.9.8

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jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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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
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modification of the work for the customer's own use and reverse
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a) Accompany the work with the complete corresponding
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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
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d) Verify that the user has already received a copy of these
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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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jar/org/eclipse/jetty/websocket/common/WebSocketFrame.java
* /opt/cola/permits/1154060105_1618681070.13/0/websocket-common-9-1-4-v20140401-sources-2-
jar/org/eclipse/jetty/websocket/common/events/JettyAnnotatedEventDriver.java
* /opt/cola/permits/1154060105_1618681070.13/0/websocket-common-9-1-4-v20140401-sources-2-
jar/org/eclipse/jetty/websocket/common/events/annotated/EventMethod.java
* /opt/cola/permits/1154060105_1618681070.13/0/websocket-common-9-1-4-v20140401-sources-2-
jar/org/eclipse/jetty/websocket/common/events/annotated/InvalidSignatureException.java
* /opt/cola/permits/1154060105_1618681070.13/0/websocket-common-9-1-4-v20140401-sources-2-
jar/org/eclipse/jetty/websocket/common/extensions/compress/package-info.java
* /opt/cola/permits/1154060105_1618681070.13/0/websocket-common-9-1-4-v20140401-sources-2-
jar/org/eclipse/jetty/websocket/common/frames/TextFrame.java
* /opt/cola/permits/1154060105_1618681070.13/0/websocket-common-9-1-4-v20140401-sources-2-
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* /opt/cola/permits/1154060105_1618681070.13/0/websocket-common-9-1-4-v20140401-sources-2-
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* /opt/cola/permits/1154060105_1618681070.13/0/websocket-common-9-1-4-v20140401-sources-2-
1.314 httpcomponents-client 4.3.2

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**1.316 tdb 1.44.1**

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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This is the Debian GNU/Linux prepackaged version of ppp.

This package was previously maintained by Ian Murdock <imurdock@debian.org>, Alvar Bray <alvar@debian.org>, Christoph Lameter <clameter@debian.org>, Philip Hands <phil@hands.com>, Michael Beattie <mj@debian.org> and Russell Coker <russell@coker.com.au>.

It is currently maintained by Marco d’Itri <md@linux.it> and Chris Boot <bootc@debian.org>.

Original sources were obtained from:
git://ozlabs.org/~paulus/ppp.git

The options file was originally obtained from:
ftp://sunsite.unc.edu/pub/Linux/system/Network/serial/pppopt.tgz

It was later heavily modified by various people, with additions from different sources.

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1.324 xft 2.3.2 1

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1.326 curl 7.47.0 1ubuntu2.19

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1.327 kubernetes/component-helpers 0.21.0

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Version 3, 29 June 2007

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1.329 grub2 2.02~beta2-36ubuntu3.9

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1.330 powermock-api-mockito-common 1.7.4

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* /opt/cola/permits/1144927562_1620110718.74/0/powermock-api-mockito-common-1-7-4-sources-1-jar/org/powermock/api/mockito/internal/invocation/InvocationControlAssertionError.java
* /opt/cola/permits/1144927562_1620110718.74/0/powermock-api-mockito-common-1-7-4-sources-1-jar/org/powermock/api/mockito/expectation/WithExpectedParameterTypes.java
* /opt/cola/permits/1144927562_1620110718.74/0/powermock-api-mockito-common-1-7-4-sources-1-jar/org/powermock/api/mockito/expectation/WithoutExpectedArguments.java
* /opt/cola/permits/1144927562_1620110718.74/0/powermock-api-mockito-common-1-7-4-sources-1-jar/org/powermock/api/mockito/internal/invocation/MockitoNewInvocationControl.java
* /opt/cola/permits/1144927562_1620110718.74/0/powermock-api-mockito-common-1-7-4-sources-1-jar/org/powermock/api/mockito/expectation/WithExpectedArguments.java

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* /opt/cola/permits/1144927562_1620110718.74/0/powermock-api-mockito-common-1-7-4-sources-1-jar/org/powermock/api/mockito/internal/invocation/InvocationControlAssertionError.java
* /opt/cola/permits/1144927562_1620110718.74/0/powermock-api-mockito-common-1-7-4-sources-1-jar/org/powermock/api/mockito/expectation/WithExpectedParameterTypes.java
* /opt/cola/permits/1144927562_1620110718.74/0/powermock-api-mockito-common-1-7-4-sources-1-jar/org/powermock/api/mockito/expectation/WithoutExpectedArguments.java
* /opt/cola/permits/1144927562_1620110718.74/0/powermock-api-mockito-common-1-7-4-sources-1-jar/org/powermock/api/mockito/internal/invocation/MockitoNewInvocationControl.java
* /opt/cola/permits/1144927562_1620110718.74/0/powermock-api-mockito-common-1-7-4-sources-1-jar/org/powermock/api/mockito/expectation/WithExpectedArguments.java
1.331 dom 1.0

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/*
 * used to check the 3 constraints against each complex type
* (should be each model group):
* Unique Particle Attribution, Particle Derivation (Restriction),
* Element Declarations Consistent.
*/

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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties
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jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
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jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java
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jar/org/apache/xerces/impl/dv/xs/YearDV.java
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  jar/org/apache/xerces/dom3/as/ASModel.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
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  jar/org/apache/xerces/dom3/as/DocumentEditAS.java
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  jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
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  jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
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  jar/org/apache/xerces/dom3/as/ASObjectList.java
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  jar/org/apache/xerces/dom3/as/DOMASWriter.java
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  jar/org/apache/xerces/dom3/as/ASDataType.java
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  jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
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  jar/org/apache/xerces/dom3/as/DOMASBuilder.java
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* /opt/cola/permits/2017727294_1635408911.57/0/xercesimpl-2-12-0-sources.jar/org/apache/html/dom/HTMLModElementImpl.java
* /opt/cola/permits/2017727294_1635408911.57/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/io/Latin1Reader.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParserForXMLSchema.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaException.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMNode.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/Version.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/UCSReader.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/languages/Merger.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/languages/TagSet.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/parsers/ParserFactory.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/parsers/ObjectFactory.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/parsers/DocumentBuilder.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/parsers/ObjectFactory.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/LSInputListImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSMessageFormatter.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLPElement.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/DatatypeFactoryImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHtmlElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/REUtil.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDWildcardTraverser.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLWmlElement.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLDTDSerializer.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSModelGroupDefinition.java
jar/org/apache/xerces/impl/xs/util/XSInputSource.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/SAXLocatorWrapper.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/XML11NamespaceBinder.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDSimpleTypeTraverser.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DeferredElementNSImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/events/UIEventImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/ParentNode.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLOneventElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/identity/Selector.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xml/serialize/Method.java
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jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/stax/events/XMLEventImpl.java
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jar/org/apache/xml/serialize/IndentPrinter.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/dom/CommentImpl.java
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jar/org/apache/xerces/stax/events/NamespaceImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLFormControl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLBigElement.java
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jar/org/apache/html/dom/HTMLTableElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/impl/xs/ElementPSVImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/StAXLocationWrapper.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLBigElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/BMPattern.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/sax/SAXParserFactoryImpl.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/Augmentations.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/IDREFDV.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/EmptyLocation.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegexParser.java
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*/
/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 *
 * @return a boolean that says whether this content has been compacted for UPA
 */

Found in path(s):
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xx/models/XSCMValidator.java
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 */
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode The <code>mode</code> argument is either
 * <code MODE_SYNCHRONOUS</code> or <code MODE_ASYNCHRONOUS</code>, if
 * <code mode</code> is <code MODE_SYNCHRONOUS</code> then the
 * <code>LSParser</code> that is created will operate in synchronous
 * mode, if it's <code MODE_ASYNCHRONOUS</code> then the
 * <code>LSParser</code> that is created will operate in asynchronous
 * mode.
 * @param schemaType An absolute URI representing the type of the schema
* language used during the load of a `<code>Document</code>` using the
* newly created `<code>LSParser</code>`. Note that no lexical checking
* is done on the absolute URI. In order to create a
* `<code>LSParser</code>` for any kind of schema types (i.e. the
* `<code>LSParser</code>` will be free to use any schema found), use the value
* `<code>null</code>`.
* `<p>` Note: For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502'>XML Schema Part 1</a>]
* , applications must use the value
* `<code>"http://www.w3.org/2001/XMLSchema"</code>`.
* For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
* applications must use the value
* `<code>"http://www.w3.org/TR/REC-xml"</code>`.
* Other Schema languages are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.
* @return The newly created `<code>LSParser</code>` object. This
* `<code>LSParser</code>` is either synchronous or asynchronous
* depending on the value of the `<code>mode</code>` argument.
* `<p>` Note: By default, the newly created `<code>LSParser</code>`
* does not contain a `<code>DOMErrorHandler</code>`, i.e. the value of
* the "[a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler']
* error-handler" configuration parameter is `<code>null</code>`. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the `<code>"error-handler"</code>` configuration
* parameter on the new created `<code>LSParser</code>` contains a
* reference to the default error handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

Found in path(s):
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

1.332 xmlschema 2.2.1

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1.333 statsd 0.8.0-1

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1.334 xorg 7.7+13ubuntu3
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Source Package: xorg
Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel
Stone and others

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1.335 libxmu 1.1.2-2
1.335.1 Available under license:
No license file was found, but licenses were detected in source scan.

--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#!/bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+    $srcdir/configure "$@
+fi
--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+ when building in parallel (closes: #801059). Thanks, Matthias Klose!
+
+ [ Julien Cristau ]
+ * Remove Cyril from Uploaders.
+ * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+
+ -- Julien Cristau <jcristau@debian.org>  Sat, 14 Nov 2015 10:04:44 +0100
+
+libxmu (2:1.1.2-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ * Add $[misc:Depends] to libxmu-headers.
+ * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ * Add build-[arch,indep] debian/rules targets.
+ * Bump debhelper compat level from 5 to 7.
+
+ -- Julien Cristau <jcristau@debian.org>  Mon, 05 May 2014 14:13:01 +0200
+
+libxmu (2:1.1.1-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ * Don't require (fake)root for debian/rules clean.
+ * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per
+ configure.ac.
+ * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call
+ from debian/rules.
+ * Remove David Nusinow from Uploader.
+ * Bump debhelper build-dep for ${misc:Pre-Depends} usage.
+ 
+ -- Julien Cristau <jcristau@debian.org> Sat, 21 Apr 2012 10:50:11 +0200
+ 
+libxmu (2:1.1.0-3) unstable; urgency=low
+ + * Build for multiarch.
+ 
+ -- Steve Langasek <vorlon@debian.org> Fri, 21 Oct 2011 14:47:59 -0700
+ 
+libxmu (2:1.1.0-2) unstable; urgency=low
+ + [ Christopher James Halse Rogers ]
+ + * debian/patches/01_dont_export_private_deps.patch:
+ +   - The Xmu.h header uses libXt symbols in a #define, so libXt is not a
+ +     private dep. With binutils-gold, the indirect dependency on Xt is not
+ +     considered when linking with Xmu so this causes build failures.
+ + 
+ + [ Julien Cristau ]
+ + * Drop Pre-Depends on x11-common, only needed for upgrades from the
+ +   monolith.
+ + 
+ -- Julien Cristau <jcristau@debian.org> Thu, 28 Apr 2011 14:10:11 +0200
+ 
+libxmu (2:1.1.0-1) unstable; urgency=low
+ + * New upstream release.
+ + * Bump xutils-dev build-dep for new macros.
+ + * Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.
+ + * Pass --with-xmlto and --without-fop (we want html and txt only).
+ + * Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
+ +   libxmu-headers.install file.
+ + * Remove the hardcoded path to the X logo in the Xmu.html file.
+ + * Kill *.xml in the doc directory, no point in shipping them.
+ + * Switch from --list-missing to --fail-missing for additional safety.
+ 
+ -- Cyril Brulebois <kibi@debian.org> Fri, 19 Nov 2010 08:42:29 +0100
+ 
+libxmu (2:1.0.5-2) unstable; urgency=high
+ + [ Julien Cristau ]
+ + * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
+ +   good reason. Thanks, Colin Watson!
+ + * Remove myself from Uploader
+ + * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
+ +   libxmu1 dbg (Closes: #594500). Thanks to Luca Falavigna for the report.
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+ + [ Cyril Brulebois ]
+ + * Add myself to Up uploaders.
+ + * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
+ + for the report.
+ + -- Cyril Brulebois <kibi@debian.org> Sat, 04 Sep 2010 14:32:30 +0200
+ + libxmu (2:1.0.5-1) unstable; urgency=low
+ + [ Timo Aaltonen ]
+ + * New upstream release.
+ + + Fix 64bit support (closes: #521887)
+ +
+ + [ Julien Cristau ]
+ + * Bump Standards-Version to 3.8.3.
+ +
+ + -- Julien Cristau <jcristau@debian.org> Wed, 25 Nov 2009 19:20:17 +0100
+ + libxmu (2:1.0.4-2) unstable; urgency=low
+ + [ Julien Cristau ]
+ + * Drop -1 debian revisions from build-deps.
+ + * libxmu6{-dbg}, libxmu-dev, libxmuu1{-dbg} and libxmuu-dev don't need a
+ + dependency on x11-common.
+ + * Build libxmu-headers in binary-indep instead of binary-arch
+ + (closes: #486418). Thanks, Martin Koeppe!
+ + * Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
+ + * Handle parallel builds.
+ +
+ + [ Brice Goglin ]
+ + * Add a link to www.X.org and a reference to the upstream module
+ + in the long description.
+ + * Add upstream URL to debian/copyright.
+ + * Add README.source, bump Standards-Version to 3.8.2.
+ + * Use updated xsfbs, closes: #538587.
+ + * Move -dbg packages to section debug.
+ +
+ + -- Julien Cristau <jcristau@debian.org> Fri, 07 Aug 2009 14:30:36 +0200
+ + libxmu (2:1.0.4-1) unstable; urgency=low
+ + [ Julien Cristau ]
+ + * New upstream release.
+ + * Make libxmu-dev depend on libxmu-headers (=source:Version). Thanks,
+ +  Josh Triplett.
+ + * Don't export private dependencies in xmu.pc and xmuu.pc. These
+ +  dependencies are handled by Requires:private.
+ * Due to the above, build-depend on quilt and apply the xsfbs patch rules.
+ * Update xsfbs to the latest version as of 2008-01-06.
+ * Add myself to Up loaders, and remove Branden and Fabio with their
+   permission.
+ * Bump Standards-Version to 3.7.3 (no changes).
+ * s/^XS-Vcs/Vcs/

[ Timo Aaltonen ]
+ * Bump the epoch so that this can be synced to Ubuntu in the future.

+-- Julien Cristau <jcristau@debian.org>  Thu, 17 Jan 2008 14:57:47 +0100
+libxmu (1:1.0.3-1) unstable; urgency=low
+  * New upstream release.
+  * Install the upstream changelog.
+  * Remove outdated CVS information from the package descriptions, and add
+    XS-Vcs-Git and XS-Vcs-Browser.
+  * Fix package sections (libraries in libs, development stuff in libdevel).
+  * Use $[binary:Version} instead of $[Source-Version].
+-- Julien Cristau <jcristau@debian.org>  Thu, 12 Apr 2007 13:40:07 +0200
+libxmu (1:1.0.2-2) unstable; urgency=low
+  [ Andres Salomon ]
+  * Test for obj-$[DEB_BUILD_GNU_TYPE) before creating it during build;
+    idempotency fix.
+  [ Drew Parsons ]
+  * dbg package has priority extra.
+-- David Nusinow <dnusinow@debian.org>  Wed, 30 Aug 2006 16:53:25 -0400
+libxmu (1:1.0.2-1) experimental; urgency=low
+  * New upstream release
+  * Bump debhelper compat to 5
+  * Run dh_install with --list-missing
+  * Version the -headers package's x11-common pre-dep to use version 1:7.0.0
+  to match the rest of Debian and shut lintian up
+  * Bump standards version to 3.7.2.0
+-- David Nusinow <dnusinow@debian.org>  Mon,  3 Jul 2006 18:43:32 -0400
+libxmu (1:1.0.1-3) unstable; urgency=low
+  * Reorder makeshlib command in rules file so that ldconfig is run
@@ -0,0 +1 @@
+9
--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+  + debhelper (>= 9),
+  + dh-autoreconf,
+  + libx11-dev (>= 1:0.99.2),
+  + libx-dev (>= 1:0.99.1),
+  + libxext-dev (>= 1:0.99.1),
+  + pkg-config,
+  + quilt,
+  + automake,
+  + libtool,
+  + xutils-dev (>= 1:7.6+2),
+  +# devel-docs:
+  + xmlto (>= 0.0.22),
+  + xorg-sgml-doctools (>= 1:1.8),
+  + w3m,
+Standards-Version: 3.9.6
+Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
+Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git
+
+Package: libxmu6
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous utility library
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu6-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})
+Description: X11 miscellaneous utility library (debug package)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmu1.
+ .
+ This package contains the debug versions of the library found in libxmu6.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+Description: X11 miscellaneous utility library (development headers)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmu1.
+ .
+ This package contains the development headers for the library found in
+ libxmu6. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu1
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous micro-utility library
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
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+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu1-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
+Description: X11 miscellaneous micro-utility library (debug package)
+ libXmumu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the debug versions of the library found in libxmuu1.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
+ libXmumu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the development headers for the library found in
+ libxmuu1. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu-headers
+Section: libdevel
+Architecture: all
+Multi-Arch: foreign
+Depends:
  + libx11-dev,
  + x11proto-core-dev,
  + ${misc:Depends},
+Description: X11 miscellaneous utility library headers
+ libXmu and libXmuu are miscellaneous utility libraries for X library
+ developers to abstract some common functions. This package provides the
+ headers for both libraries (as libXmuu is a subset of libXmu), and
+ is depended upon by both. For more information, please see libxmu-dev or
+ libxmuu-dev.
+.
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
--- libxmu-1.1.2.orig/debian/copyright
+++ libxmu-1.1.2/debian/copyright
@@ -0,0 +1,77 @@
+This package was downloaded from
+http://xorg.freedesktop.org/releases/individual/lib/
+
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--- libxmu-1.1.2.orig/debian/libxmu-dev.install
+++ libxmu-1.1.2/debian/libxmu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmu.a
+usr/lib/*/libXmu.so
+usr/lib/*/pkgconfig/xmu.pc

--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
+usr/include/X11/*

--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1 @@
+usr/lib/*/libXmu.so.6*

--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmuu.a
+usr/lib/*/libXmuu.so
+usr/lib/*/pkgconfig/xmuu.pc

--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxmuu1.install
@@ -0,0 +1 @@
+usr/lib/*/libXmuu.so.1*

--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
diff --git a/xmu.pc.in b/xmu.pc.in
index a086f83..15dabbf 100644
--- a/xmu.pc.in
+++ b/xmu.pc.in
@@ -6,7 +6,7 @@ includedir=@includedir@

+Name: Xmu
+Description: Xmu Library
+Version: @PACKAGE_VERSION@
+Requires: xproto x11 xt
+Requires.private: x11 xt xext
+CFLAGS: -I$[includedir]
+Libs: -L$[libdir] -lXmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index 1e91ac4..72fa5f9 100644
+--- a/xmuu.pc.in
++++ b/xmuu.pc.in
@@ -6,7 +6,7 @@ includedir=@includedir@
+Name: Xmuu
+Description: Xmuu Library
+Version: @PACKAGE_VERSION@
+Requires: xproto x11 xt
+Requires.private: x11 xt xext
+CFLAGS: -I$[includedir]
+Libs: -L$[libdir] -lXmuu
+diff --git a/xmuu1.pc.in b/xmuu1.pc.in
+index 1e91ac4..72fa5f9 100644
+--- a/xmuu1.pc.in
++++ b/xmuu1.pc.in
@@ -6,7 +6,7 @@ includedir=@includedir@
+Name: Xmuu1
+Description: Xmuu1 Library
+Version: @PACKAGE_VERSION@
+Requires: xproto x11 xt
Name: Xmuu
Description: Mini Xmu Library
Version: @PACKAGE_VERSION@
+ Requires: xproto x11
++Requires: xproto
+ Requires.private: x11
+ Cflags: -I$\{includedir\}
+ Libs: -L$\{libdir\} -lXmuu
--- libxmu-1.1.2.orig/debian/patches/series
+++ libxmu-1.1.2/debian/patches/series
@@ -0,0 +1 @@
01_dont_export_private_deps.diff
--- libxmu-1.1.2.orig/debian/rules
+++ libxmu-1.1.2/debian/rules
@@ -0,0 +1,34 @@
#!/usr/bin/make -f
# debian/rules for the Debian libxmu package.
# Copyright  2004 Scott James Remnant <scott@netsplit.com>
# Copyright  2005 Daniel Stone <daniel@fooishbar.org>
# Copyright  2005 David Nusinow <dnusinow@debian.org>
+
+# Uncomment this to turn on verbose mode.
+#export DH_VERBOSE=1
+
+.PHONY: build
+build:
+  dh build --with quilt,autoreconf --builddirectory=build/ --parallel
+
+%:
+  dh $@ --with quilt,autoreconf --builddirectory=build/ --parallel
+
+override_dh_auto_configure:
+  dh_auto_configure --
+      --disable-silent-rules
+      --docdir=$\{prefix\}/share/doc/libxmu-headers
+      --with-xmlto
+      --without-fop
+
+override_dh_auto_install:
+  dh_auto_install
+  find debian/tmp/usr/share/doc/libxmu-headers -name '*.xml' -delete
+
+override_dh_install-arch:
+  dh_install --fail-missing -Xusr/include -X.la
+
+override_dh_strip:
+  dh_strip -Nlibxmu6 -Nlibxmuu1
+  dh_strip -plibxmu6 --dbg-package=libxmu6-dbg
1.336 cryptsetup 1.6.6 5ubuntu2.1

1.336.1 Available under license:

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1.346 libsndfile 1.0.25 10ubuntu0.16.04.2

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1.347 tar 1.28 2.1ubuntu0.1

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

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

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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 piostream 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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* 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 3a0982da308228d796df35f98d787c5cbbf2bb5b6.

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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    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
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*
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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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 */

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
 ifndef _COMPAT_POLL_H_
 define _COMPAT_POLL_H_

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

typedef unsigned int nfds_t;
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define 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 */
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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*
*/
/* 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)))
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) (_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (WIFEXITED(w) & WIFSTOPPED(w))
#define WEXITSTATUS(w) ((WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */

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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
This package was debianized by Philip Hands <phil@hands.com> on 31 Oct 1999
(with help from Dan Brosemer <odin@linuxfreak.com>)

It was downloaded from here:
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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1.363 eventlog 0.2.12-7

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Additional -

Microsoft.PowerShell.Archive

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Microsoft.Management.Infrastructure

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NuGet.ProjectModel
NuGet.Protocol.Core.Types
NuGet.Protocol.Core.v3
NuGet.Repositories
NuGet.RuntimeModel
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PackageManagement

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-------------------------------------------------------------
File: PSReadLine
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https://github.com/PowerShell/PSReadLine

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ThreadJob
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1.365 byte-buddy 1.9.10

1.365.1 Available under license:

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bundle-Description: Byte Buddy is a Java library for creating Java cla
This artifact is a build of Byte Buddy with all ASM dependencies repackaged into its own name space.

Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: net.bytebuddy.byte-buddy
Built-By: rafael
Bnd-LastModified: 1549908028499
Bundle-ManifestVersion: 2
Tool: Bnd-3.5.0.201709291849
Main-Class: net.bytebuddy.build.Plugin$Engine$Default
Export-Package: net.bytebuddy;version="1.9.10",net.bytebuddy.agent.builder;version="1.9.10",net.bytebuddy.asm;version="1.9.10",net.bytebuddy.build;version="1.9.10",net.bytebuddy.description.annotation;version="1.9.10",net.bytebuddy.description.enumeration;version="1.9.10",net.bytebuddy.description.field;version="1.9.10",net.bytebuddy.description.method;version="1.9.10",net.bytebuddy.description.modifier;version="1.9.10",net.bytebuddy.description.type;version="1.9.10",net.bytebuddy.dynamic;version="1.9.10",net.bytebuddy.dynamic.loading;version="1.9.10",net.bytebuddy.dynamic.scaffold;version="1.9.10",net.bytebuddy.dynamic.scaffold.inline;version="1.9.10",net.bytebuddy.dynamic.scaffold.subclass;version="1.9.10",net.bytebuddy.implementation;version="1.9.10",net.bytebuddy.implementation.attribute;version="1.9.10",net.bytebuddy.implementation.bind;version="1.9.10",net.bytebuddy.implementation.bind.annotation;version="1.9.10",net.bytebuddy.implementation.bytecode;version="1.9.10",net.bytebuddy.implementation.bytecode.assign;version="1.9.10",net.bytebuddy.implementation.bytecode.assign.primitive;version="1.9.10",net.bytebuddy.implementation.bytecode.assign.reference;version="1.9.10",net.bytebuddy.implementation.bytecode.collection;version="1.9.10",net.bytebuddy.implementation.bytecode.constant;version="1.9.10",net.bytebuddy.implementation.bytecode.member;version="1.9.10",net.bytebuddy.matcher;version="1.9.10",net.bytebuddy.pool;version="1.9.10",net.bytebuddy.utility;version="1.9.10",net.bytebuddy.utility.privilege;version="1.9.10",net.bytebuddy.jar.asm;version="1.9.10",net.bytebuddy.jar.asm.commons;version="1.9.10"
Bundle-Name: Byte Buddy (without dependencies)
Bundle-Version: 1.9.10
Multi-Release: true
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_201

Found in path(s):
*/
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/META-INF/MANIFEST.MF
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*/

Found in path(s):
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/description/method/ParameterList.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/dynamic/scaffold/inline/RebaseImplementationTarget.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/implementation/bind/annotation/SuperMethod.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/matcher/LatentMatcher.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/implementation/bind/annotation/SuperCall.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/description/package-info.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/implementation/bind/annotation/AllArguments.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/dynamic/scaffold/InstrumentedType.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/implementation/bind/annotation/HashCodeAndEqualsPlugin.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/dynamic/LoadingStrategy.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/implementation/DefaultMethodCall.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/description/type/PackageDescription.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/implementation/bind/annotation/PrimitiveTypeAwareAssigner.java
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* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/dynamic/loading/ClassReloadingStrategy.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/description/type/PackageDescription.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/implementation/bind/annotation/Argument.java
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* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
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jar/net/bytebuddy/dynamic/scaffold/subclass/package-info.java
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jar/net/bytebuddy/implementation/bytecode/constant/ClassConstant.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/dynamic/scaffold/subclass/package-info.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-
jar/net/bytebuddy/implementation/bytecode/constant/JavaConstant.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-

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* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/jar/asm/ByteVector.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/jar/asm/TypePath.java
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* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/jar/asm/signature/SignatureWriter.java
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* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/jar/asm/SymboTable.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/jar/asm/TypeReference.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/jar/asm/ModuleVisitor.java
* /opt/cola/permits/1200619934_1630904807.75/0/byte-buddy-1-9-10-sources-2-jar/net/bytebuddy/jar/asm/Opcodes.java
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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.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
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  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.

1.367 nginx 1.12.0
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1.369 base-files 9.4ubuntu4.4

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```
lib/gssapi/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
```
and the initial implementation of incremental propagation, including the following new or changed files:

- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.x`
- `lib/kdb/kdb_convert.c`

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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* \([^ \]*\)( - .*)? */\*', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\s*\*\*\*\*', '', line)
            line = line.strip()
        if not in_comment and '/\*' in line:
            (line, sep, comment_part) = line.partition('\n')
            comment = [comment_part.strip()]
.. _mitK5license:

MIT Kerberos License information
================================

.. toctree::
   :hidden:

   copyright.rst

.. include::  notice.rst

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*-

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

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

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      libblkid/samples/*
libblkid/src/partitions/*
libblkid/src/superblocks/*
libblkid/src/topology/*

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Create new DOS partition table
57e721e38d1266c2df055067c18f2ef9 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
Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8d851a8a045db233418dd73fe 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
2e1cee529cb59c9341afe0443f196a bsd.img

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

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

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

Slice Start End Sectors Size Type Fszie Bsize Cpg
 0 4096 20479 16384 8M unused 0 0 0
 1 0 16064 16065 7.9M unused 0 0 0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.
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

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
a      4096  6144    2049    1M 4.2BSD       0     0   0
b      2048 20479   16384    8M unused       0     0   0
c      0 16064   16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

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

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

Command (m for help): 0 unused      5 4.1BSD 9 4.4LFS d boot
1 swap       6  Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8  MS-DOS c ISO-9660 10 AdvFS
4 System V
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---

#1:       7936       4864  0x7
#2:      12544       3584  0x7

1.382 pcre 8.39 9
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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
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STACK-LESS JUST-IN-TIME COMPILER
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Written by: Zoltan Herczeg
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1.383 jacoco-core 0.7.7.20160606060606

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1.384 pygobject 3.20.0 0ubuntu1

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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.
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1.385 grizzly-http-servlet 2.3.23
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto
rijndael-alg-fst.c

@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>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis
Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
for humouring me on.

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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Windows support

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lib/hcrypto/test_dh.c

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Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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1.391 jackson 2.9.8
1.391.1 Available under license:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.392 icu 55.1-7ubuntu0.3

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<html>
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<body BGCOLOR="#ffffff">
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## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name

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

## Shared library options

LD_SOOPTIONS=-Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

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

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

## Dependency rules

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

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

## Versioned libraries rules

%.SO.$(SO_TARGET_VERSION_MAJOR): %.SO.$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $< $@
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%.$(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

1.393 guava 19.0

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/LongAddables.java
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  jar/com/google/common/collection/HashBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collection/Interners.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/net/UrlEscapers.java
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jar/com/google/common/collection/ForwardingImmutableCollection.java
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jar/com/google/common/collection/UnmodifiableListIterator.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/CollectionFuture.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/LongAdder.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/package-
info.java

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/*
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/cache/LongAdder.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/base/SmallCharMatcher.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collect/EmptyImmutableSortedMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/html/package-info.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collect/LongAddables.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collect/UnmodifiableSortedMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collect/EmptyImmutableMultiset.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collect/FilteredEntryMultimap.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/collect/ImmutableSortedMap.java
jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/FilteredEntrySetMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ForwardingNavigableSet.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ForwardingDeque.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/RegularImmutableSortedMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/FilteredSetMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/ServiceManager.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/TreeTraverser.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/io/CharSink.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/TreeRangeMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/io/CharSource.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/reflect/TypeResolver.java
jar/com/google/common/collections/ImmutableSortedMap.java
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jar/com/google/common/collections/DiscreteDomain.java
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jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
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jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/collections/ImmutableSortedSetFauxverideShim.java
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jar/com/google/common/collections/RegularImmutableMap.java
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jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableSet.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/HashMultiset.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/Multimaps.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ConcurrentHashMultiset.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/LinkedListMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/io/package-info.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/NullsLastOrdering.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collections/Iterators.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collections/Maps.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collections/Sets.java
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* /opt/ cola/ permits/ 1150909106_1617718339.43/ 0/ guava-16-0-1-sources-5-jar/com/google/common/collect/Constraint.java
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* /opt/ cola/ permits/ 1150909106_1617718339.43/ 0/ guava-16-0-1-sources-5-jar/com/google/common/collect/ForwardingCollection.java
* /opt/ cola/ permits/ 1150909106_1617718339.43/ 0/ guava-16-0-1-sources-5-jar/com/google/common/collect/ClassToInstanceMap.java

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* /opt/ cola/ permits/ 1150909106_1617718339.43/ 0/ guava-16-0-1-sources-5-jar/com/google/common/collect/AbstractCompositeHashFunction.java
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  jar/com/google/common/cache/Weigher.java
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  jar/com/google/common/math/MathPreconditions.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/Count.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ForwardingSortedMultiset.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/primitives/UnsignedLong.java
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  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Utf8.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/FilteredMultimapValues.java

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  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/Monitor.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/annotations/Beta.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Strings.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/ListeningExecutorService.java
  */opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/primitives/package-info.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/RowSortedList.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/SortedMapDifference.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/UnmodifiableListIterator.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/hash/AbstractStreamingHashFunction.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/EmptyImmutableSortedMultiset.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/TreeRangeSet.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/AbstractSortedMultiset.java
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*
* As of 2010/06/11, this method is identical to the (package private) hash
* method in OpenJDK 7's java.util.HashMap class.
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jar/com/google/common/hash/SipHashFunction.java
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jar/com/google/common/collect/CartesianList.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/Interners.java
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1.397 xauth 1.0.9-1ubuntu2

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* /

1.398 leveldb 1.8.0

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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
```cpp
#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() {
}
```
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---
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//
().'/

#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;
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>  
\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  

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

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,\
FUCN_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::FUCN_NAME>*);\
    template<typename T> static ::boost::intrusive::detail::no_type test(...);\
    public:\
    static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);\
};\

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME)\
template <typename Type>\
struct TRAITS_NAME\
{\
    struct BaseMixin\
    {\
        void FUNC_NAME();\
    };\
    struct Base : public Type, public BaseMixin { Base(); };\
    template <typename T, T T> class Helper{};\
    template <typename U>\
    static ::boost::intrusive::detail::no_type test(U*, Helper<void (BaseMixin::*())(void, &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(TRAITS_NAME##_ignore_signature, FUNC_NAME) \
\ 
template <typename Type, class> \
struct TRAITS_NAME \
    : public TRAITS_NAME##_ignore_signature<Type> \
{};\ 
// 
} //namespace detail 
} //namespace intrusive 
} //namespace boost 

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP 

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]

[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.

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 [quickbook 1.5]
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]
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">
MPL Interoperability

All the value based traits in this library conform to MPL’s requirements for an Integral Constant type.

Please note that these types no longer inherit from `mpl` or `true_` or `false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `mpl` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.
var group__group_ext_mpl =
[ 
"integral_c", "structboost__l_1mpl__l_1integral__c.html", null ],
"list", "structboost__l_1mpl__l_1list.html", null ],
"vector", "structboost__l_1mpl__l_1vector.html", null ]
);
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#include <boostmplpush_back.hpp>
#include <boostmplvector.hpp>

template <int i>
struct t { }

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

int main() { }

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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boostconfig.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif
#include <boostcontainerdetailconfig_begin.hpp>
#include <boostmovedetailtype_traits.hpp>
#include <boostintrusivedetailmpl.hpp>

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#include <cstdlib>

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::false__;
            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); }
            }
        }
    }
}

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};
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>
{};

} //namespace dtl {
} //namespace container {
} //namespace boost {
#include <boost/container/detail/config_end.hpp>
#endif //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title><no title> &#8212; 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'

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#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

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

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstddef>
namespace boost {


namespace interprocess {
namespace ipcdetail {

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

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

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

typedef true_ true_type;
typedef false_ false_type;

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

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

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

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

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

template<
    bool 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*\(' + prefix + r'\)?\w*copyright\w*\(\w*\)\?\w*\d\d\d\d\(?\w*\d\d\d\d\)\?\w*\+\(\w*\+\)?\w*$', 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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MathJax.Hub.Config({
  extensions: ["tex2jax.js"],
  jax: ["input/TeX","output/HTML-CSS"],
});
Adapters for Boost.MPL containers.

**Classes**

- `boost::mpl::integral_c< T, v >`  
  Adapter for IntegralConstants
from the Boost.MPL. <a href="structboost_1_1mpl_1_1integral__c.html#details">More...</a><br /></td><tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &amp;#160;</td><td class="memItemRight" valign="bottom"><a class="el" href="structboost_1_1mpl_1_1list.html">boost::mpl::list<T></a></td></tr><tr class="memdesc:"><td class="mdescLeft"><a href="structboost_1_1mpl_1_1list.html#details">More...</a><br /></td><td class="mdescRight">Adapter for Boost.MPL lists. <a href="structboost_1_1mpl_1_1list.html#details">More...</a><br /></td></tr><tr class="separator:"><td class="memSeparator" colspan="2"><a href="structboost_1_1mpl_1_1list.html#details">More...</a><br /></td></tr><tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &amp;#160;</td><td class="memItemRight" valign="bottom"><a class="el" href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector<T></a></td></tr><tr class="memdesc:"><td class="mdescLeft"><a href="structboost_1_1mpl_1_1vector.html#details">More...</a><br /></td><td class="mdescRight">Adapter for Boost.MPL vectors. <a href="structboost_1_1mpl_1_1vector.html#details">More...</a><br /></td></tr><tr class="separator:"><td class="memSeparator" colspan="2"><a href="structboost_1_1mpl_1_1vector.html#details">More...</a><br /></td></tr>
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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.

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

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

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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() { }

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The header `&lt;boost/mp11/mpl.hpp&gt;`, 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 `&lt;boost/mp11.hpp&gt;`.

Boost.Geometry (aka GGL, Generic Geometry Library)

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 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include &lt;fstream&gt;
#include &lt;iomanip&gt;
// split_path is a small helper for outputting a path name,  
// complete with a link to that path:
//
struct split_path
{
  const fs::path& root;
  const fs::path& file;
  split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f) {}
private:
  split_path& operator=(const split_path&);
};

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

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

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

  std::map<int, license_data>::const_iterator i, j;
  i = m_license_data.begin();
  j = m_license_data.end();
  std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output.");
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

os <<
"""DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">\n""""<html>
""""<head>
""""<title>Boost Licence Dependency Information"";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

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

os <<
""""</H1>
""""<H2>Contents</h2>
""""<pre><a href="#input">Input Information</a>
""""if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>
""""os << "<a href="#details">Licence Details</a>
""""while(i != j)
{
    // title:
    os << " <A href=""; << make_link_target(licenses.first[i->first].license_name) << "]">"; << licenses.first[i->first].license_name << "</a>
";
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
""""<a href="#authors">Files with no recognised copyright holder</a>
""""if(!m_bsl_summary_mode)
{
    os << 
""""Moving to the Boost Software License...\n"""
Files that can be automatically converted to the Boost Software License
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:
//
//
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
// fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]*#\[[:blank:]*define\[[:blank:]*BOOST_VERSION[[:blank:]*\+[[:blank:]]*([[:digit:]]+)]$\)
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "\n" << "<p>\nThe Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100
    "</p>
    "
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
  //
  // start with the summary:
  //
  os << "<a name="summary">" </a><h2>Licence Summary</h2>";
  while(i != j)
  {
    // title:
    os << "<H3>" << licenses.first[i->first].license_name << "</H3>";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    // Copyright holders:
    os << "<P>This license is used by " << i->second.authors.size() 
       << " authors and " << i->second.files.size() 
       << " files &lt;a href="# &lt; make_link_target(licenses.first[i->first].license_name) "&gt; (see details)\&lt;/a&gt;\) &lt;/P&gt;";</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>" << 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 &gt;= 3))
    {
      // Copyright holders:
      os << "&lt;P&gt;This license is used by the following " &lt; i-&gt;second.authors.size() &lt; " copyright
       holders: &lt;P&gt;&lt;BLOCKQUOTE&gt;&lt;P&gt;";
    std::set&lt;std::string&gt;::const_iterator x, y;
    x = i-&gt;second.authors.begin();
    y = i-&gt;second.authors.end();
    while(x != y)
    {
      os << &lt;x &lt; "&lt;BR&gt;";
      ++x;
    }
Files using this license:

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 << "</P></BLOCKQUOTE>
};
else
{
    os << "<P>This license is used by " i->second.authors.size() " authors (list omitted for brevity).</P>
    os << "<P>This license applies to " i->second.files.size() " files (list omitted for brevity).</P>
    ++license_index;
    ++i;
}
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>
"<P>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 << "</P></BLOCKQUOTE>
";
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>
"<P>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) << "\n";
++i2;
} os << "/<p /></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
  
  // Output list of files that have been moved over to the Boost
  // Software License, along with enough information for human
  // verification.
  //
os << "\h2\<a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2>\n"
  
  "<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>\n";
  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)
  
  "\n<tt><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"></a>Files that could be converted to the Boost Software License</h2>\n"
  
  "<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>\n</p></BLOCKQUOTE><p>";
  i2 = m_can_migrate_to_bsl.begin();
  j2 = m_can_migrate_to_bsl.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
  }
  os << "/<p /></BLOCKQUOTE>";
  }
  
  // Output list of files that can not be moved over to the Boost Software License
  //
os << "\h2\<a name="not-bsl"></a>Files that can not be moved over to the Boost Software License</h2>\n"
  
  "<p>The following " << m_can_not_migrate_to_bsl.size() << " files can not be moved over to the Boost Software License:
  
  "<p>";
  if (!m_can_not_migrate_to_bsl.empty())
  {
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
    conv_iterator i = m_can_not_migrate_to_bsl.begin(),
    ie = m_can_not_migrate_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
      os << "\p>["] << file_num << "\"] File: <tt>" << split_path(m_boost_path, i->first)
  
  "\n<tt><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;
  }
  }

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 4997
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>

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

i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";

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

os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>

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

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

ERSIST output a table of copyright information:

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

//
// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P><br>
} 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(see_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);
}

---

1.400 iso-codes 3.65-1

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Version 2.1, February 1999

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

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

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If such an object file uses only numerical parameters, data
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b) Use a suitable shared library mechanism for linking with the
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========

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This is the Debian package of the Cairo multi-platform 2D graphics library

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1.410 qdox 1.12

1.411 libxcursor 1:1.1.14-1
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1.412 python-whisper 0.9.15 1
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Metadata-Version: 1.0
Name: whisper
Version: 0.9.15
Summary: Fixed size round-robin style database
Home-page: http://graphite-project.github.com/
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Description: UNKNOWN
Platform: UNKNOWN
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* /opt/cola/permits/1013987428_1626772426.4/0/python-whisper-0-9-15-orig-1-tar-gz/whisper-0.9.15/PKG-INFO
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1.413 json-java 20140107

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* /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/Cookie.java
* /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/CDL.java
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1.414 faulthandler 2.0-2

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1.415 commons-collections 3.2.2-1

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1.418 mountall 2.54ubuntu1

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1.421 bouncycastle-fips 1.0.3

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/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
* example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.

* If *.com is in the known suffixes list will not be allowed to match.

* </p>

* @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.422 open-vm-tools 10.0.7-3227872-5ubuntu1~16.04.1

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   Upstream-Name: open-vm-tools
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1.423 joda-convert 1.8.1
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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<!-- 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($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
          <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
  </xsl:if>
</xsl:template>

</xsl:stylesheet>
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 * Version 2.39 (23-MAY-2011)
 * @requires jQuery v1.2.3 or later
 *
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This file creates a global JSON object containing two methods: stringify and parse.

JSON.stringify(value, replacer, space)
value any JavaScript value, usually an object or array.
replacer an optional parameter that determines how object values are stringified for objects. It can be a function or an array of strings.
space an optional parameter that specifies the indentation of nested structures. If it is omitted, the text will be packed without extra whitespace. If it is a number, it will specify the number of spaces to indent at each level. If it is a string (such as '\t' or '"\nbsp;"'), it contains the characters used to indent at each level.
This method produces a JSON text from a JavaScript value.

When an object value is found, if the object contains a toJSON method, its toJSON method will be called and the result will be stringified. A toJSON method does not serialize: it returns the value represented by the name/value pair that should be serialized, or undefined if nothing should be serialized. The toJSON method will be passed the key associated with the value, and this will be bound to the value.

For example, this would serialize Dates as ISO strings.

```javascript
Date.prototype.toJSON = function (key) {
  function f(n) {
    // Format integers to have at least two digits.
    return n < 10 ? '0' + n : n;
  }

  return this.getUTCFullYear()   + '-' + f(this.getUTCMonth() + 1) + '-' + f(this.getUTCDate())      + 'T' + f(this.getUTCHours())     + ':' + f(this.getUTCMinutes())   + ':' + f(this.getUTCSeconds())   + 'Z';
};
```

You can provide an optional replacer method. It will be passed the key and value of each member, with this bound to the containing object. The value that is returned from your method will be serialized. If your method returns undefined, then the member will be excluded from the serialization.

If the replacer parameter is an array of strings, then it will be used to select the members to be serialized. It filters the results such that only members with keys listed in the replacer array are stringified.

Values that do not have JSON representations, such as undefined or functions, will not be serialized. Such values in objects will be dropped; in arrays they will be replaced with null. You can use a replacer function to replace those with JSON values. `JSON.stringify(undefined)` returns undefined.

The optional space parameter produces a stringification of the value that is filled with line breaks and indentation to make it easier to read.
If the space parameter is a non-empty string, then that string will be used for indentation. If the space parameter is a number, then the indentation will be that many spaces.

Example:

```javascript
text = JSON.stringify(['e', {pluribus: 'unum'}]);
// text is ['"e",{"pluribus":"unum"}']
```

```javascript
text = JSON.stringify(['e', {pluribus: 'unum'}], null, '	');
// text is 

```

```javascript
text = JSON.stringify([new Date()], function (key, value) {
    return this[key] instanceof Date ?
        'Date(' + this[key] + ') : value;
});
// text is ['"Date(---current time---)"']
```

```javascript
JSON.parse(text, reviver)
```

This method parses a JSON text to produce an object or array. It can throw a SyntaxError exception.

The optional reviver parameter is a function that can filter and transform the results. It receives each of the keys and values, and its return value is used instead of the original value. If it returns what it received, then the structure is not modified. If it returns undefined then the member is deleted.

Example:

```javascript
// Parse the text. Values that look like ISO date strings will
// be converted to Date objects.

myData = JSON.parse(text, function (key, value) {
    var a;
    if (typeof value === 'string') {
        a = /^\d{4}-(\d{2})-(\d{2})T(\d{2}):(\d{2}):(\d{2})(?:\.(\d+))?Z$/;exec(value);
        if (a) {
            return new Date(Date.UTC(+a[1], +a[2] - 1, +a[3], +a[4],
            +a[5], +a[6]));
        }
    }
    return value;
});
```
myData = JSON.parse(['"Date(09/09/2001)"'], function (key, value) {
  var d;
  if (typeof value === 'string' &&
      value.slice(0, 5) === 'Date(' &&
      value.slice(-1) === ')') {
    d = new Date(value.slice(5, -1));
    if (d) {
      return d;
    }
  }
  return value;
});

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jar/com/netflix/exhibitor/core/index/IndexBuilder.java
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 * @description Virtual rendering for DataTables
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* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/ui/js/jquery-ui-1.8.16.custom.min.js
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*/opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/activity/OnOffRepeatingActivity.java
*/opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/s3/DefaultS3CredentialsProviderImpl.java
*/opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/s3/S3ClientImpl.java
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* @summary DataTables
* @description Paginate, search and sort HTML tables
* @version 1.9.0
* @file jquery.dataTables.js
* @author Allan Jardine (www.sprymedia.co.uk)
* @contact www.sprymedia.co.uk/contact
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1.434 gsasl 1.8.0-8ubuntu2

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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its [@link ChannelPipeline].
*<h3>Sub-types</h3>
*<p>
*[@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
*subtypes:
*<ul>
*<li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
*<li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
*<ul>
*</p>
Alternatively, the following adapter classes are provided for your convenience:

- `ChannelInboundHandlerAdapter` to handle inbound I/O events,
- `ChannelOutboundHandlerAdapter` to handle outbound I/O operations, and
- `ChannelDuplexHandler` to handle both inbound and outbound events.

For more information, please refer to the documentation of each subtype.

**The context object**

A `ChannelHandlerContext` is provided with a `ChannelHandlerContext` object. A `ChannelHandlerContext` is supposed to interact with the `ChannelPipeline` it belongs to via a context object. Using the context object, the `ChannelHandlerContext` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `AttributeKey`s) which is specific to the handler.

**State management**

A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
  // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

  private boolean loggedIn;

  @Override
  public void channelRead0(@Link ChannelHandlerContext ctx, Message message) {
    if (message instanceof LoginMessage) {
      authenticate((LoginMessage) message);
      loggedIn = true;
    } else if (message instanceof GetDataMessage) {
      if (loggedIn) {
        ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
      } else {
        fail();
      }
    } else {
      ...
    }
  }
  ...
```
Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where an unauthenticated client can get
the confidential information:

// Create a new handler instance per channel.
// See [ChannelInitializer\#initChannel(\Channel)].
public class DataServerInitializer extends ChannelInitializer<\Channel> {
    \Override
    public void initChannel(\Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}

<h4>Using AttributeKey</h4>

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use AttributeKey which is provided by
public interface Message {
    // your methods here
}

\Sharable
public class DataServerHandler extends SimpleChannelInboundHandler\Message {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    \Override
    public void channelRead(\ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (\Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
Now that the state of the handler is attached to the \{@link ChannelHandlerContext\}, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends \{@link ChannelInitializer\}\{@link Channel\} { 
  private static final DataServerHandler \texttt{SHARED} = new DataServerHandler();

  \@Override
  public void initChannel(\@link Channel\ channel) {
    channel.pipeline().addLast("handler", \texttt{SHARED});
  }
}
```

The \@code \@Sharable\ annotation

In the example above which used an \@link AttributeKey\, you might have noticed the \@code \@Sharable\ annotation.

If a \@link ChannelHandler\ is annotated with the \@code \@Sharable\ annotation, it means you can create an instance of the handler just once and add it to one or more \@link ChannelPipeline\s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like \texttt{<a href="http://www.javaconcurrencyinpractice.com/annotations/doc/"\rangle the JCIP annotations</a>.

Additional resources worth reading

Please refer to the \@link ChannelHandler\, and \@link ChannelPipeline\ to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

Found in path(s):

/\opt\/cola/permits/115111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/\io/netty/channel/ChannelHandler.java
1.438 autogen 5.18.7-3

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1.439 patch 2.7.5 1
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The current maintainer for this package is Laszlo Boszormenyi (GCS) <gcs@debian.org>.

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1.441 icu 60.2 3ubuntu3.1

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

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n| sed '\s/(\$\\\n)\.o[ ]*: /A1.o $@ : /g' > $@; \n[ -s $@ ] || rm -f $@’

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n| sed '\s/(\$\\\n)\.o[ ]*: /A1.o $@ : /g' > $@; \n[ -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
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#
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John

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

Subject: Re: ksh scripts
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To: john@armory.com
Cc: chet@odin.ins.cwru.edu

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

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

Chet Ramey

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

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

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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>
Date: Thu, 25 May 95 11:18:21 CST

>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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@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:
From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995
12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

-------

1.450 adduser 3.113+nmu3ubuntu4
1.450.1 Available under license :
This package was first put together by Ian Murdock
<imurdock@debian.org> and was maintained by Steve Phillips
<sjp@cvfn.org> from sources written for the Debian Project by Ian
Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<sr1@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt
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<rb@debian.org>, and co-maintained by Marc Haber
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1.453 glibc 2.23 0ubuntu10

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 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */
```

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```java
/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard { @link java.lang.Appendable } and provides methods to append UTF-8
 * encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to { @link #append(byte) } may be needed before state a character is
 * appended to the string buffer.
 *
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
 * inspired by
 *
 * http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
 */
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4.1.50-final-sources-1.jar/io/netty/buffer/EmptyByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4.1.50-final-sources-1.jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
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/** Set the TCP/IP port used for CONFIDENTIAL and INTEGRAL
 * redirections.
 * @param confidentialPort
 */
/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL
 * redirections.
 * @param confidentialScheme A string like"https"
 */

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1.467 coreutils 8.28 1ubuntu1
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1.470 zeromq 4.1.4 7ubuntu0.1

1.470.1 Available under license:

wepoll - epoll for Windows
https://github.com/piscisaureus/wepoll

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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5.jar/javassist/bytecode/analysis/FramePrinter.java  
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5.jar/javassist/util/proxy/ProxyObject.java  
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/SyntaxException.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/web/BadHttpRequest.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationImpl.java
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1.482 curl 7.47.0 1ubuntu2.18
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include/GL/g1.h :

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include/GL/glxext.h
include/GL/wglxext.h:

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1.496 mime-support 3.59ubuntu1

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

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

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

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

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

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

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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.

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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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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.

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Linus Torvalds

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Martin Richards
23 February 2007

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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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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017

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John R. Hauser
2018 January 20

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1.521 pyjks 20.0.0

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1.522 websocketpp 2.9.1(Cpp Rest SDK)
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base64.cpp and base64.h

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1.523 jackson-jaxrs-base 2.9.8

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1.524 mergo 0.3.12

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.525 twisted 16.0.0 1
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This package was put together by Wichert Akkerman <wakkerma@debian.org> from
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1.534 python-setuptools 35.0.2

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1.535 ubuntu-keyring 2012.05.19

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1.536 jline 0.9.94

1.537 config 1.3.3

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1.542 cpp 5.4.0 6ubuntu1~16.04.12
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/* gnu.classpath.tools.taglets.CopyrightTaglet
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**<p>
* A simple Taglet which handles Copyright information.
*/
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }
}
public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright &copy; " + tags[i].text() + "</i></dt>");
                }
            result.append("</dl>");
            return result.toString();
        }
    }
}
else {
    return null;
}
}

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission_
#define __java_security_Permission_

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
    class Permission;
    class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{
public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jboolean implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -563657022231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};

#endif // __java_security_Permission_

@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).
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@end example

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

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/* Permission.java -- The superclass for all permission objects

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obligated to do so. If you do not wish to do so, delete this
exception statement from your version. */

package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *<p>The most important method in this class is <code>implies</code>. This
 *checks whether if one has this permission, then the specified
 *permission is also implied. As a conceptual example, consider the
 *permissions "Read All Files" and "Read File foo". The permission
"Read All Files" implies that the caller has permission to read the
file foo.

Permission's must be immutable - do not change their
state after creation.

@see Permissions
@see PermissionCollection
@since 1.1
@status updated to 1.4

public abstract class Permission implements Guard, Serializable
{
/**
 * Compatible with JDK 1.1+. 
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * 
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * 
 * @param obj the object to compare to
 * @return a hash value
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * 
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * 
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
* "read,write".
*  
* @return the action list for this <code>Permission</code>
*/
public abstract String getActions();

/**
* This method returns an empty <code>PermissionCollection</code> object
* that can store permissions of this type, or <code>null</code> if no
* such collection is defined. Subclasses must override this to provide
* an appropriate collection when one is needed to accurately calculate
* <code>implies</code>.
*  
* @return a new <code>PermissionCollection</code>
*/
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
* This method returns a <code>String</code> representation of this
* <code>Permission</code> object. This is in the format:
* <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
* + ')'</code>.
*  
* @return this object as a <code>String</code>
*/
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
}
} // class Permission
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Version 2.1, February 1999

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used to run it.

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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:
</para>
<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">
  <listitem>
    <para>
      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.
    </para>
  </listitem>
  <listitem>
    <para>
      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.
    </para>
  </listitem>
  <listitem>
    <para>
      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.
    </para>
  </listitem>
  <listitem>
    <para>
      Convey the object code by offering access from a designated place
      (gratis or for a charge), and offer equivalent access to the
      Corresponding Source in the same way through the same place at no
      further charge. You need not require recipients to copy the
      Corresponding Source along with the object code. If the place to copy
      the object code is a network server, the Corresponding Source may be on
      a different server (operated by you or a third party) that supports
      equivalent copying facilities, provided you maintain clear directions
      next to the object code saying where to find the Corresponding Source.
      Regardless of what server hosts the Corresponding Source, you remain
      obligated to ensure that it is available for as long as needed to
      satisfy these requirements.
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# 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.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        pass
self.num_errors = 0

def report (self, filename, string):
    if filename:
        string = filename + ':' + string
    sys.stderr.write (string + '
')
    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',
            'lsugar.m4',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
        '])

    def __str__ (self):
        return 'GenericFilter'
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)

def get_line_filter (self, dir, filename):
if filename.startswith ('ChangeLog'):
    # Ignore references to copyright in changelog entries.
    return re.compile ('	')

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]\([-0-9,.\s]\|\s+and\s+\)*\[0-9\]'

        # 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+\[Cc\]'  
            '\[Cc]\opyright\s+%s'  
            '\[Cc]\opyright\s+\&copy;'  
            '\[Cc]\opyright\s+@copyright\{\}'  
            '[copyright = u"'  
            '@set\s+copyright[\w-.]+\]'  
            '\@set\s+copyright[\w-.]+\]'  
            '\[\w-.]+\]'  
            '\"'  
            '\[\w-.]+\]'  
            '\[\w-.]+\]'  
            '\[\w-.]+\]'  
            '\[\w-.]+\]'  
            '\[\w-.]+\]'  
            '\[\w-.]+\]'  
            '\[\w-.]+\]')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\s*(?::' + ranges + '\.\?)*'  
        '@value\{[^\{\}\r

        # 3: 'by ', if used
        '\(by\s+\)'  
        '\(by\s+\)'}
# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).

'( + name +(?:\s? + name + +')?>')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
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
elif len (string) == 4:
    return year
raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
        for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
orig_line = line
next_line = None
pathname = os.path.join (dir, filename)
intro = match.group (1)
if intro.startswith ('@set'):
# Texinfo year variables should always be on one line
after_years = line[match.end (2):].strip()
if after_years != '':
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,

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unrecognised copyright holder: ' + holder)
return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    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'):
        try:
os.remove (pathname)
except OSError:
    pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                  file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
            line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open (tmp_pathname, 'w') as file:
            for line in lines:
                file.write (line)
            if self.use_quilt:
                subprocess.call (["quilt", 'add', pathname])
        os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.optionHandlers = 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.optionHandlers[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 ('
Directories:
')
        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:
                    pass
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',
    ])


def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ({
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        })

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Imported from GLIBC.
            'soft-fp',
        })

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        })

    def get_line_filter (self, dir, filename):
if filename == 'NameDecoder.h':
    return re.compile ('.*NAME COPYRIGHT')
if filename == 'ICC_Profile.h':
    return re.compile ('.*icSigCopyrightTag')
return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)
canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author ('Free Software Foundation', canon_fsf)
self.add_package_author ('Free Software Foundation.', canon_fsf)
self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('The Free Software Foundation', canon_fsf)
self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('Software Foundation, Inc.', canon_fsf)

self.add_external_author ('ARM')
self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks.')
self.add_external_author ('Faraday Technology Corp.')
self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
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 ('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.')
self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author ('Silicon Graphics')
self.add_external_author ('Stephen L. Moshier')
self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Regents of the University of California.')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto')

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('gnattools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libc++', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'),
             TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libc++',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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Preamble

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

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

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

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

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

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@c End:
```

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java/security/acl/Permission
java/lang/Object
equals(Ljava/lang/Object;)Z
toString()Ljava/lang/String;
SourceFilePermission.java
/* Definitions for BSD assembler syntax for Intel 386
(actually AT&T syntax for insns and operands,
adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s' to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space \"HOST_WIDE_INT_PRINT_UNSIGNED\"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
(fputs (".comm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifndef 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)\
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with \`assemble_name\'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\    
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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Java/security/Permission.java/lang/Object/java/security/Guard/java/io/Serializable/VersionUIDJ

ConstantValue?WQ<name>java/lang/String;<init>(Ljava/lang/String;)VCode
()VLineNumberTableLocalVariableTablethisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)V

java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
%c&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;)VobjLjava/lang/Object;smLjava/lang/
SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()Ljava/lang/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString:gnu/java/lang/CPStringBuilder;

::?>#append"(C)Lgnu/java/lang/CPStringBuilder;
BCDgetClass()Ljava/lang/Class;
FHGjava/lang/Class45
]:7?K3(Ljava/lang/String;)Lgnu/java/lang/CPStringBuilder;
H
N65P
RTSjava/lang/String01
:V95stringLgnu/java/lang/CPStringBuilder;
SourceFilePermission.java!
F
**+[]

// DO NOT EDIT THIS FILE - it is machine generated .*- c++ .*- 

#ifndef __java_security_acl_Permission__
define __java_security_acl_Permission__
#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{

class Permission;

} // acl
}
}
} // security
}
} // java

} // namespace

} // namespace

} // extern "C"

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class Permission;

} // acl
}
}
} // security
}
} // java

} // namespace

} // namespace

} // extern "C"
class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class * class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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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.

The Encore Multimax modifications were also contributed 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@mtiam.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks (age@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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/**
 * This interface provides information about a permission that can be
 * granted.  Note that this is &lt;em&gt;not&lt;/em&gt; the same as the class
 * &lt;code&gt;java.security.Permission&lt;/code&gt;.
 * *
 * @version 0.0
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 * *
 * @param perm The permission to check for equality
 * *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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.. .ne 5
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.. .PP
.. .. .de Sp \" Vertical space (when we can't use .PP)
.. .if t .sp .5v
.. .if n .sp
.. ...
.. .de Vb \" Begin verbatim text
.. .ft CW
.. .nf
.. .ne \$1
.. .. .de Ve \" End verbatim text
.. .ft R
.. .fi
.. .. \" Set up some character translations and predefined strings. \"(--) will
.. \" give an unbreakable dash, \"(PI will give pi, \"(L" will give a left
.. \" double quote, and \"(R" will give a right double quote. \"(C+ will
.. \" give a nicer C++. Capital omega is used to do unbreakable dashes and
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.. \" nothing in troff, for use with C<>.
.. .tr \"(W-
.. .ds C+ C\1v\h'\-1p\8\s\-2\h'\-1p\+\s0\v\h'\-1p'
.. .ie n \{
.. . ds -- \"(W-
.. . ds PI pi
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 ds L""
 ds R""
 ds C""
 ds C'"

'br\}
.eb\{
 ds -- \1(m|em|)
 ds PI \*p
 ds L"`
 ds R"`
'br\}

\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n.g .ds Aq \(aq
.el \ldas Aq |`

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\" output yourself in some meaningful fashion.
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 .de IX
 .tm Index:\$1\t\n%	"\$2"
.. 
 nr % 0
 .rr F
 .el \\
 .de IX
..
.. 

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 .\ fudge factors for nroff and troff
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 . ds #H 0
 . ds #V .8m
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 . ds #\f1
 . ds #\fP
 .el \\
 .if t \\
 . ds #H (\1u-(\\n(.fu%2u)\)*.13m)
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#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
 namespace gnu
 {
  namespace javax
   {
    namespace sound
     {
      class AudioSecurityManager$Permission;
     }
   }
  }
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

  AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

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The Debian tree is maintained with "git" at:
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1.553 simplejson 3.8.1

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1.561 sensible-utils 0.0.12

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@end subheading END OF TERMS AND CONDITIONS

@page

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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https://github.com/santoshsahoo/nbench (mirror of the same code)

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1.571 jsp 2.2.FR

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

HISTORY -

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

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

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.
The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agle@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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Martin Richards
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    </PropertyGroup>
    <ItemGroup>
        <Compile Include="Program.cs" />
        <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
        <Compile Include="../../ServerContracts/Server.Contracts.cs" />
        <Compile Include="../../ServerContracts/ServerGuids.cs" />
    </ItemGroup>
    <ItemGroup>
        <ProjectReference Include="../../NativeServer/CMakeLists.txt" />
        <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
    </ItemGroup>
</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 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.
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Preamble

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

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

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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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.

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of 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.

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

That's all there is to it!

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It was downloaded from ftp://ftp.gnutls.org/gcrypt/gnutls/

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lib/vasprintf.c
Upstream Authors: David Woodhouse <dwmw2@infradead.org>
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Comment: This code is not used on Debian/*, since we have a working
vasprintf() in glibc.

lib/extras/hex.*
Author: Rusty Russell <rusty@rustcorp.com.au>
Comment: http://ccodearchive.net/info/str/hex.html
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1.596 slf4j 1.6.1

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1.598 docopt 0.6.2

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1.599 sudo 1.8.16 0ubuntu1.10

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
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Barron, Danny
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Bellis, Ray
Benali, Elias
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Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
The following people have worked to translate sudo into other languages:

- Blittermann, Mario
- Bogusz, Jakub
- Casagrande, Milo
- Castro, Felipe
- Chornoivan, Yuri

Schuring, Arno
Schwarze, Ingo
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Sieger, Nick
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Smith, Andy
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Soulen, Steven
Spradling, Cloyce D.
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Diguez, Francisco
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1.604 less 481 2.1ubuntu0.1

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1.610 rename 0.20-4

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=head1 NAME
File::Rename - Perl extension for renaming multiple files

=head1 SYNOPSIS
use File::Rename qw(rename);
rename @ARGV, sub { s/\.pl\z/.pm/ }, 1;

use File::Rename;
rename @ARGV, '$_ = lc';

=head1 DESCRIPTION

=item C<rename( FILES, CODE [, VERBOSE])>
rename FILES using CODE,
if FILES is empty read list of files from stdin

=item C<rename_files( CODE, VERBOSE, FILES)>
rename FILES using CODE

=item C<rename_list( CODE, VERBOSE, HANDLE [, FILENAME])>
rename a list of file read from HANDLE, using CODE

=back

=head2 OPTIONS

=over 8

=item FILES
List of files to be renamed,
for C<rename> must be an array

=item CODE

Subroutine to change file names,
for C<rename> can be a string,
otherside a code reference

=item VERBOSE

Flag for printing names of files successfully renamed,
optional for C<rename>

=item HANDLE

Filehandle to read file names to be renames

=item FILENAME (Optional)

Name of file that HANDLE reads from

=back

=head2 HASH

Either CODE or VERBOSE can be a HASH of options.

If CODE is a HASH, VERBOSE is ignored
and CODE is supplied by the B<_code> key.

Other options are

=over 16

=item B<verbose>

As VERBOSE above, provided by B<-v>.

=item B<no_action>

Print names of files to be renamed, but do not rename
(i.e. take no action), provided by B<-n>.

=item B<over_write>

Allow files to be over-written by the renaming, provided by B<-f>.
Print help, provided by B<-h>.

=item B<show_manual>

Print manual page, provided by B<-m>.

=item B<show_version>

Print version number, provided by B<-V>.

=back

=head2 EXPORT

None by default.

=head1 ENVIRONMENT

No environment variables are used.

=head1 SEE ALSO

mv(1), perl(1), rename(1)

=head1 AUTHOR

Robin Barker <RMBarker@cpan.org>

=head1 Acknowledgements

Based on code from Larry Wall.

Options B<-e>, B<-f>, B<-n> suggested by more recent code written by Aristotle Pagaltzis.

=head1 DIAGNOSTICS

Errors from the code argument are not trapped.

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File::Rename provides an implementation of Larry Wall's eg(rename) command. All I have done is add some error checking and (more recently) add the File/Rename.pm module.

An earlier version of the script is out in the Internet and is included with some linuxes, and the original eg(rename) is not included in the Perl distribution, so I have put this up on CPAN.

A revised version of the earlier script is now on the Internet, which includes more options. This script, distinguished by "Getopt::Long::Configure('bundling')", was not written by me; I think the author is Aristotle Pagaltzis. Version 0.10 of this distribution has similar options to the revised script.

For Windows, the script is called file-rename to avoid clashes with existing rename command.

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

or if you have Module::Build

perl Build.PL
perl Build
perl Build test
perl Build install

DEPENDENCIES

This module requires these other modules and libraries:
File::Basename File::Path File::Spec Getopt::Long
(all included with Perl).

Testing requires File::Temp and Test::More which are available with perl 5.6.0. I have successfully installed those modules for perl 5.005_05 and tested this module.

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Found in path(s):
* /opt/cola/permits/1136205553_1613708317.37/0/rename-0-20-orig-1-tar-gz/File-Rename-0.20/README

1.611 system-io-compression 4.5.50709

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Martin Richards
23 February 2007
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   version 1.2.11, January 15th, 2017

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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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John R. Hauser
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1.612 xz 5.22.1

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 */

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  * /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
    jar/io/netty/handler/codecs/MoveToFrontTable.java

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jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handle
jar/io/netty/handler/codec/MessageAggregationException.java

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 */
/*
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*/
/**
* Utility class for { @link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/base64/Base64.java
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jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/ValueConverter.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/DateFormatter.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/string/StringDecoder.java

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 */

/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *<pre>
 * lengthFieldOffset = 0
 * lengthFieldLength = 2
 * initialBytesToStrip = 0 (= do not strip header)
 *<pre>
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * +-------------------+ +-------------------+
```
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
* +---------------------------------+ +---------------------------------+
* </pre>
* 
* <h3>2 bytes length field at offset 0, strip header</h3>
* 
* Because we can get the length of the content by calling
* [@link ByteBuf#readableBytes()], you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* 
* lengthFieldOffset  = 0
* lengthFieldLength  = 2
* lengthAdjustment  = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+ | +--------+----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +---------------------------------+ +---------------------------------+
* </pre>
* 
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
* 
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* 
* lengthFieldOffset  = 0
* lengthFieldLength  = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+ | +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" | | "HELLO, WORLD" |
* +---------------------------------+ +---------------------------------+
* </pre>
* 

* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>*

* The following message is a simple variation of the first example. An extra* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero* again because the decoder always takes the length of the prepended data into* account during frame length calculation.

* <pre>*</b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)<br>* <b>lengthFieldLength</b>   = <b>3</b><br>* lengthAdjustment   = 0<br>* initialBytesToStrip = 0<br>*

* BEORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)*
* +----------+----------+----------------+      +----------+----------+----------------+<br>* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |<br>* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |<br>* +----------+----------+----------------+      +----------+----------+----------------+<br>* </pre>*

* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>*

* This is an advanced example that shows the case where there is an extra* header between the length field and the message body. You have to specify a* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra* header into the frame length calculation.

* <pre>*</b>lengthFieldOffset   = 0<br>* lengthFieldLength   = 3<br>* <b>lengthAdjustment</b>   = <b>2</b> (= the length of Header 1)<br>* initialBytesToStrip = 0<br>*

* BEORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)*
* +----------+----------+----------------+      +----------+----------+----------------+<br>* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+<br>* </pre>*

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,*     strip the first header field and the length field</h3>*

* This is a combination of all the examples above. There are the prepended* header before the length field and the extra header after the length field.* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero* <tt>initialBytesToStrip</tt> to strip the length field and the prepended* header from the frame. If you don't want to strip the prepended header, you* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>. 
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)

* BEFORE DECODE (16 bytes)                        AFTER DECODE (13 bytes)
* +-----------------------+-----------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------------+-----------------------+

* BEFORE DECODE (16 bytes)                        AFTER DECODE (13 bytes)
* +-----------------------+-----------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------------+-----------------------+

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.

* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>

* BEFORE DECODE (16 bytes)                        AFTER DECODE (13 bytes)
* +-----------------------+-----------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------------+-----------------------+

@see LengthFieldPrepender
/

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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### 1.620 jinja2 2.11.2

#### 1.620.1 Available under license:

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```python
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = "(.*)"", f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    ...)
```
project_urls={
    "Documentation": "https://jinja.palletsprojects.com/",
    "Code": "https://github.com/pallets/jinja",
    "Issue tracker": "https://github.com/pallets/jinja/issues",
},
license="BSD-3-Clause",
author="Armin Ronacher",
author_email="armin.ronacher@active-4.com",
maintainer="Pallets",
maintainer_email="contact@palletsprojects.com",
description="A very fast and expressive template engine.",
long_description=readme,
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Environment :: Web Environment",
    "Intended Audience :: Developers",
    "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 :: 3.5",
    "Programming Language :: Python :: 3.6",
    "Programming Language :: Python :: 3.7",
    "Programming Language :: Python :: 3.8",
    "Programming Language :: Python :: Implementation :: CPython",
    "Programming Language :: Python :: Implementation :: PyPy",
    "Topic :: Internet :: WWW/HTTP :: Dynamic Content",
    "Topic :: Software Development :: Libraries :: Python Modules",
    "Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={":" : "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors" : ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python
It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
--------

Install and update using `pip`:

.. code-block:: text

$ pip install -U Jinja2


In A Nutshell
-------------

.. code-block:: jinja

{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
{% for user in users %}
<li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
Links
-----
- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*

Description-Content-Type: text/x-rst
Provides-Extra: i18n

Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2.11.1-21-tar.gz/Jinja2-2.11.1/PKG-INFO
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2.11.1-21-tar.gz/2.11.1/src/Jinja2.egg-info/PKG-INFO

1.621 console-setup 1.108ubuntu15.3
1.621.1 Available under license:

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== u_vga16.bdf

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1.628 lftp 4.6.3
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

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

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

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

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

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.

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
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under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
ingineering for debugging such modifications.

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this License. You must supply a copy of this License. If the work
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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:

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

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Version 3, 29 June 2007

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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.

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

TERMS AND CONDITIONS

0. Definitions.

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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.

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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.

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from setuptools import setup, find_packages
import io
from os import path
import re

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

LONG_DESCRIPTION = io.open(  
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()
path.join(path.dirname(__file__), 'README.rst'),
encoding='utf-8'
).read()  

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 3',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

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python-webencodings
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This is a Python implementation of the `WHATWG Encoding standard`_.

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

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

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* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/__init__.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/tests.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/x_user_defined.py
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Found in path(s):
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* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5.tar.gz/webencodings-0.5/webencodings.egg-info/PKG-INFO
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```python
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string
```
def generate(url):
    parts = ['''
    webencodings.labels
    ~~~~~~~~~~~~~~~~~~~~
    Map encoding labels to their name.

    :copyright: Copyright 2012 by Simon Sapin
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    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

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

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

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar-gz/webencodings-0.5/webencodings/mklabels.py

1.631 fdisk 2.27.0
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57c721e38d1266c2df055067c18f2ef9 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>
---layout--
Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
---layout--
Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

Create 2st primary partition
1bebf87248e05de4e62b749da65d023 bsd.img
Set 2nd partition type
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

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
c      4096 20479   16384    8M unused       0     0   0
d          0 16064   16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

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

b5c121c2091b2ff26b880551feac7112 bsd.img

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

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

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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

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

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

Command (m for help):

0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition  a  unknown           e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V

Command (m for help):
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* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONNavi.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONArray.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONStreamAwareEx.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/FakeMapper.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/ParseException.java
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* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONValue.java
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* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserString.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/BeansMapper.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONStreamAware.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserBase.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/DefaultMapperOrdered.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserMemory.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/ArraysMapper.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/DefaultMapperCollection.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/CompessorMapper.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParser.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserInputStream.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserByteArray.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/DefaultMapperOrderedReader.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/DefaultMapperReader.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/ArrayMapper.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/DefaultMapper.java

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Found in path(s):
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/DefaultMapper.java
1.633 javassist 3.19.0-GA

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Found in path(s):
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/HotSwapper.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/DoubleConst.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/MethodFilter.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/EnclosingMethodAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtNewNestedClass.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/FieldAccess.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/Proxy.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/Dump.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/stackmap/TypedBlock.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/Subroutine.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/NotFoundException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/StringL.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/NotFoundException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/Member.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/web/BadHttpRequest.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/Parser.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/Bytecode/ByteArray.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CannotCompileException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/annotation/NoSuchClassError.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/StackMapTable.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/KeywordTable.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/ByteStream.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/MethodCall.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/MemberResolver.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/LineNumberAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/ClassPoolTail.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtBehavior.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtClassType.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/InstanceOf.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/SerialVersionUID.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/converter/TransformWriteField.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
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* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/tools/reflect/Reflection.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/compiler/ast/InstanceOfExpr.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/util/proxy/ProxyObjectOutputSteam.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/compiler/NoFieldException.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/compiler/SyntaxError.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/convert/Transformer.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/bytecode/MethodInfo.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/bytecode/Descriptor.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/compiler/JvstTypeChecker.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/convert/TransformNewClass.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/expr/ConstructorCall.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/bytecode/CodeAttribute.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/expr/Cast.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/compiler/ast/CondExpr.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/util/proxy/ProxyObjectInputSteam.java
* /opt/ cola/ permits/ 1135902017_1613627678.46/ 0/javassist-3-19-0-ga-sources-1- jar/javassist/compiler/Javac.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/IntegerMemberValue.java

1.634 jbig-kit 2.1

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1.639 pangox-compat 0.0.2-5

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1.640 kerberos 1.13.2+dfsg-5ubuntu2.2

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lib/krb5/kdb/kdb_convert.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
and the initial implementation of incremental propagation, including the following new or changed files:

/include/iprop_hdr.h
/kadmin/server/ipropd_svc.c
/lib/kdb/iprop.x
/lib/kdb/kdb_convert.c
/lib/kdb/kdb_log.c
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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
%.S$(STATIC_O): $(sdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o$(sdir)/%.c
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

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

$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
## Dependency rules

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

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

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<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 =

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1.645 python-functools32 3.2.3.2-2

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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 */
*/

package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 */
* See also: org/apache/xalan/res/XSLTInfo.properties for information about the version of the XSLT spec we support.
* @xsl.usage general
*/

public class Version {

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
*/
public static String getVersion() {
    return getProduct() + " " + getImplementationLanguage() + " "
        + getMajorVersionNum() + "." + getReleaseVersionNum() + ".";
        + (getDevelopmentVersionNum() > 0) ?
        ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
*/
public static void main(String argv[]) {
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
*/
public static String getProduct() {
    return "Xalan";
}

/**
 * Implementation Language: Java.
*/
public static String getImplementationLanguage() {
    return "Java";
/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. ‘n’ represents the n'th
 * version.
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
* Development Drop Number.
* Optional identifier designates development drop of
  * a specific release. D01 is the first development drop
  * of a new release.
  *
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  *
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  * well as defect fixes. 'D' drops may not be as stable as
  * the final releases.
* /

```java
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String("@version.DEVELOPER@"))).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
```

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* limitations under the License. */

/**
 * This is a special exception that is used to stop parsing when
 * search for an element. For instance, when searching for xml:stylesheet
 * PIs, it is used to stop the parse once the document element is found.
 * @see StylesheetPIHandler
 * @xsl.usage internal
 */

Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java

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Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XPathLexer.java

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 *   http://www.apache.org/licenses/LICENSE-2.0
 * */
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */

public final class Version {

    /**
     * Get the basic version string for the current Serializer.
     * Version String formatted like
     * <CODE>"<B>Serializer</B> <B>Java</B> v.r<dt>nn</dt><dl><dt>D</dt><dt>nn</dt></CODE>.<p>
     * Futurework: have this read version info from jar manifest.
     *
     * @return String denoting our current version
     */

    public static String getVersion() {
    }

    /**
     * Print the processor version to the command line.
     *
     * @param argv command line arguments, unused.
     */

    public static void main(String argv[]) {
        System.out.println(getVersion());
    }
}
/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String("@version.DEVELOPER@"))).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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 */

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

Found in path(s):
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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*/

// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

Found in path(s):
 */opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java
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*/

// Proprietary
/** The `document-location()` id (Proprietary). */

Found in path(s):
 */opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java
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Found in path(s):
 */opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
*/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
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 * limitations under the License.
 */

/*
 * $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
 */

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * @author G. Todd Miller
 */

package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xml.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;

  /**
   * Reference to the Parser class.
   */
  private Parser _parser;
  private XSLTC _xsltc;

  /**
   * String representation of the expression being parsed.
   */
  private String _expression;

  /**
   * Line number where this expression/pattern was declared.
   */
  private int _lineNumber = 0;

  /**
   * Reference to the symbol table.
   */
  public SymbolTable _symbolTable;

  public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
  }

  public int getLineNumber() {
/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
 public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
   if (test == null) {  // "*"
     int nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
     (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
     return new StepPattern(axis, nodeType, predicates);
   }
   else if (test instanceof Integer) {
     int nodeType = ((Integer) test).intValue();
     return new StepPattern(axis, nodeType, predicates);
   }
else {
    QName name = (QName)test;
    boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
        nodeType = (name.toString().equals("*")) ? -1
            : _xsltc.registerNamespacePrefix(name);
    } else {
        final String uri = name.getNamespace();
        final String local = name.getLocalPart();
        final QName namespace_uri =
            _parser.getQNameIgnoreDefaultNs("namespace-uri");

        // Expand {uri}:* to *namespace-uri() = 'uri' - same for @*
        if (uri != null && (local.equals("*") || local.equals("@*"))) {
            if (predicates == null) {
                predicates = new Vector(2);
            }
            // Priority is set by hand if no other predicates exist
            setPriority = (predicates.size() == 0);
            predicates.add(
                new Predicate(
                    new EqualityExpr(Operators.EQ,
                        new NamespaceUriCall(namespace_uri),
                        new LiteralExpr(uri))));
        }

        // Priority is set by hand if no other predicates exist
        setPriority = (predicates.size() == 0);

        if (local.equals("*")) {
            nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                NodeTest.ELEMENT;
        } else if (local.equals("@*")) {
            nodeType = NodeTest.ATTRIBUTE;
        } else {
            nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) :
                _xsltc.registerElement(name);
        }
    }

    final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }
public int findNodeType(int axis, Object test) {
if (test == null) { // *
    return (axis == Axis.ATTRIBUTE) ?
        NodeTest.ATTRIBUTE :
    (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
} else if (test instanceof Integer) {
    return ((Integer)test).intValue();
} else {
    QName name = (QName)test;

    if (axis == Axis.NAMESPACE) {
        return (name.toString().equals("*")) ? -1
    : _xslt.registerNamespacePrefix(name);
    }

    if (name.getNamespace() == null) {
        final String local = name.getLocalPart();

        if (local.equals("@") || local.equals("*")) {
            return axis == Axis.ATTRIBUTE ? NodeTest.ATTRIBUTE
        : NodeTest.ELEMENT;
        }
    }

    return (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name)
    : _xslt.registerElement(name);
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 * *
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    } catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                   lineNumber, e.getMessage);
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
                                       _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    }
else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
}
else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep");
    return rlp;
}

/**
* Returns true if the axis applies to elements only. The axes
* child, attribute, namespace, descendant result in non-empty
* nodesets only if the context node is of type element.
*/
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCendant);
}

};

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
  { : RESULT = pattern; : }

  | EXPRESSION Expr:expr
    { : RESULT = expr; : };

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
  { : RESULT = lpp; : }

  | LocationPathPattern:lpp VBAR Pattern:p
    { : RESULT = new AlternativePattern(lpp, p); : };

LocationPathPattern ::= SLASH
  { : RESULT = new AbsolutePathPattern(null); : }
SLASH RelativePathPattern: rpp
{: RESULT = new AbsolutePathPattern(rpp); :}

IdKeyPattern: ikp
{: RESULT = ikp; :}

IdKeyPattern: ikp SLASH RelativePathPattern: rpp
{: RESULT = new ParentPattern(ikp, rpp); :}

IdKeyPattern: ikp DSLASH RelativePathPattern: rpp
{: RESULT = new AncestorPattern(ikp, rpp); :}

DSLASH RelativePathPattern: rpp
{: RESULT = new AncestorPattern(rpp); :}

RelativePathPattern: rpp
{: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal: l RPAREN
{: RESULT = new IdPattern(l);
   parser.setHasIdCall(true);
:}

KEY LPAREN Literal: l1 COMMA Literal: l2 RPAREN
{: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal: l RPAREN
{: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern: sp
{: RESULT = sp; :}

StepPattern: sp SLASH RelativePathPattern: rpp
{: RESULT = new ParentPattern(sp, rpp); :}

StepPattern: sp DSLASH RelativePathPattern: rpp
{: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern: nt
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
:}

NodeTestPattern: nt Predicates: pp
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
:}
| ProcessingInstructionPattern:pip
{: RESULT = pip; :}|

| ProcessingInstructionPattern:pip Predicates:pp
{: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}|

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
{: RESULT = parser.createStepPattern(axis.intValue(), nt, null); :}|

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt Predicates:pp
{: RESULT = parser.createStepPattern(axis.intValue(), nt, pp); :}|

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
{: RESULT = pip; // TODO: report error if axis is attribute :}|

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip Predicates:pp
{: // TODO: report error if axis is attribute
RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :};|

NodeTestPattern ::= NameTestPattern:nt
{: RESULT = nt; :}|

| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}|

| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}|

| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}|

| PI
{: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
{: RESULT = null; :}|

| QName:qn
ChildOrAttributeAxisSpecifier ::= ATSIGN
   { : RESULT = new Integer(Axis.ATTRIBUTE); : }
| CHILD DCOLON
   { : RESULT = new Integer(Axis.CHILD); : }
| ATTRIBUTE DCOLON
   { : RESULT = new Integer(Axis.ATTRIBUTE); : }

Predicates ::= Predicate:p
   { :
     Vector temp = new Vector();
     temp.addElement(p);
     RESULT = temp;
     : }
| Predicate:p Predicates:pp
   { : pp.insertElementAt(p, 0); RESULT = pp; : }

Predicate ::= LBRACK Expr:e RBRACK
   { :
     RESULT = new Predicate(e);
     : }

/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex
   { : RESULT = ex; : }

OrExpr ::= AndExpr:ae
   { : RESULT = ae; : }
| OrExpr:oe OR AndExpr:ae
   { : RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); : }

AndExpr ::= EqualityExpr:e
   { : RESULT = e; : }
| AndExpr:ae AND EqualityExpr:ee
   { : RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); : }

EqualityExpr ::= RelationalExpr:re
   { : RESULT = re; : }
| EqualityExpr:ee EQ RelationalExpr:re
   { : RESULT = new EqualityExpr(Operators.EQ, ee, re); : }
| EqualityExpr:ee NE RelationalExpr:re
| : RESULT = new EqualityExpr(Operators.NE, ee, re); |

RelationalExpr ::= AdditiveExpr:ae
| : RESULT = ae; |

| RelationalExpr:re LT AdditiveExpr:ae
| : RESULT = new RelationalExpr(Operators.LT, re, ae); |

| RelationalExpr:re GT AdditiveExpr:ae
| : RESULT = new RelationalExpr(Operators.GT, re, ae); |

| RelationalExpr:re LE AdditiveExpr:ae
| : RESULT = new RelationalExpr(Operators.LE, re, ae); |

| RelationalExpr:re GE AdditiveExpr:ae
| : RESULT = new RelationalExpr(Operators.GE, re, ae); |

AdditiveExpr ::= MultiplicativeExpr:me
| : RESULT = me; |

| AdditiveExpr:ae PLUS MultiplicativeExpr:me
| : RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); |

| AdditiveExpr:ae MINUS MultiplicativeExpr:me
| : RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); |

MultiplicativeExpr ::= UnaryExpr:ue
| : RESULT = ue; |

| MultiplicativeExpr:me MULT UnaryExpr:ue
| : RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); |

| MultiplicativeExpr:me DIV UnaryExpr:ue
| : RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); |

| MultiplicativeExpr:me MOD UnaryExpr:ue
| : RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); |

UnaryExpr ::= UnionExpr:ue
| : RESULT = ue; |

| MINUS UnaryExpr:ue
| : RESULT = new UnaryOpExpr(ue); |

UnionExpr ::= PathExpr:pe
| : RESULT = pe; |
PathExpr ::= LocationPath:lp
{: RESULT = lp; :}

| FilterExpr:fexp
{: RESULT = fexp; :}

| FilterExpr:fexp SLASH RelativeLocationPath:rlp
{: RESULT = new FilterParentPath(fexp, rlp); :}

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{: // Expand '//' into '/descendant-or-self::*/' or
    // into /descendant-or-self::*/
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
        parser.isElementAxis(((Step) rlp).getAxis()))
    {
        nodeType = DTM.ELEMENT_NODE;
    }
    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    FilterParentPath fpp = new FilterParentPath(fexp, step);
    fpp = new FilterParentPath(fpp, rlp);
    if (fexp instanceof KeyCall == false) {
        fpp.setDescendantAxis();
    }
    RESULT = fpp;
:}

LocationPath ::= RelativeLocationPath:rlp
{: RESULT = rlp; :}

| AbsoluteLocationPath:alp
{: RESULT = alp; :}

RelativeLocationPath ::= Step:step
{: RESULT = step; :}

| RelativeLocationPath:rlp SLASH Step:step
{: if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    RESULT = step;   // Remove '.' from the middle
}
else if (((Step) step).isAbbreviatedDot()) {
RESULT = rlp;
// Remove '/.' from the end
}
else {
RESULT =
new ParentLocationPath((RelativeLocationPath) rlp, step);
}
:}
| AbbreviatedRelativeLocationPath:arlp
{: RESULT = arlp; :};
AbsoluteLocationPath ::= SLASH
{: RESULT = new AbsoluteLocationPath(); :}
| SLASH RelativeLocationPath:rlp
{: RESULT = new AbsoluteLocationPath(rlp); :}
| AbbreviatedAbsoluteLocationPath:aalp
{: RESULT = aalp; :};
AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
{:
final Step right = (Step)step;
final int axis = right.getAxis();
final int type = right.getNodeType();
final Vector predicates = right.getPredicates();
if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
// Compress './/child:E' into 'descendant::E' - if possible
if (predicates == null) {
right.setAxis(Axis.DESCENDANT);
if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
RESULT = right;
}
else {
// Expand 'rlp//child::E' into 'rlp/descendant::E'
RelativeLocationPath left = (RelativeLocationPath)rlp;
RESULT = new ParentLocationPath(left, right);
}
}
else {
// Expand './/step' -> 'descendant-or-self::*/step'
if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
Step left = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);
RESULT = new ParentLocationPath(left, right);
}

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else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath) rlp;
    Step mid = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(mid, right);
    RESULT = new ParentLocationPath(left, ppl);
}
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath) rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
} else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath) rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF, DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}:

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
    {
    // Expand '// into '//descendant-or-self::node()//' or
    // into //descendant-or-self::*/
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
        parser.isElementAxis(((Step) rlp).getAxis()))
    {
        nodeType = DTM.ELEMENT_NODE;
    }
    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    RESULT = new AbsoluteLocationPath(parser.insertStep(step, (RelativeLocationPath) rlp));
    }:;

Step ::= NodeTest:ntest
    {
    :;
if (ntest instanceof Step) {
    RESULT = (Step)ntest;
} else {
    RESULT = new Step(Axis.CHILD, 
    parser.findNodeType(Axis.CHILD, ntest), 
    null);
}

<table>
<thead>
<tr>
<th>NodeTest:ntest Predicates:pp</th>
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<tbody>
<tr>
<td>{</td>
</tr>
<tr>
<td>if (ntest instanceof Step) {</td>
</tr>
<tr>
<td>Step step = (Step)ntest;</td>
</tr>
<tr>
<td>step.addPredicates(pp);</td>
</tr>
<tr>
<td>RESULT = (Step)ntest;</td>
</tr>
<tr>
<td>} else {</td>
</tr>
<tr>
<td>RESULT = new Step(Axis.CHILD,</td>
</tr>
<tr>
<td>parser.findNodeType(Axis.CHILD, ntest), pp);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
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<table>
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<tr>
<th>AxisSpecifier:axis NodeTest:ntest Predicates:pp</th>
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</thead>
<tbody>
<tr>
<td>{</td>
</tr>
<tr>
<td>RESULT = new Step(axis.intValue(),</td>
</tr>
<tr>
<td>parser.findNodeType(axis.intValue(), ntest), pp);</td>
</tr>
<tr>
<td>}</td>
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</tbody>
</table>

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<tr>
<th>AxisSpecifier:axis NodeTest:ntest</th>
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<tbody>
<tr>
<td>{</td>
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<tr>
<td>RESULT = new Step(axis.intValue(),</td>
</tr>
<tr>
<td>parser.findNodeType(axis.intValue(), ntest), null);</td>
</tr>
<tr>
<td>}</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>AbbreviatedStep:abbrev</th>
</tr>
</thead>
<tbody>
<tr>
<td>{</td>
</tr>
<tr>
<td>RESULT = abbrev;</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

AxisSpecifier ::= AxisName:an DCOLON
{ : RESULT = an; : }

<table>
<thead>
<tr>
<th>ATSIGN</th>
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</thead>
<tbody>
<tr>
<td>{ : RESULT = new Integer(Axis.ATTRIBUTE); : }</td>
</tr>
</tbody>
</table>

AxisName ::= ANCESTOR
{ : RESULT = new Integer(Axis.ANCESTOR); : }

| ANCESTORORSELF |
AbbreviatedStep ::= DOT
    {: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

| DDOT |
| : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : |

FilterExpr ::= PrimaryExpr:primary
    {: RESULT = primary: :}

| PrimaryExpr:primary Predicates:pp |
| : RESULT = new FilterExpr(primary, pp); : |

PrimaryExpr ::= VariableReference:vr
\{
\text{RESULT = vr; }
\}

| LPAREN Expr:ex RPAREN
\{
\text{RESULT = ex; }
\}

| Literal:string
\{
\text{/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);
\}

| INT:num
\{
    long value = num.longValue();
    if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
        RESULT = new RealExpr(value);
    }
    else {
        if (num.doubleValue() == 0)
            RESULT = new IntExpr(num.intValue());
        else
            RESULT = new IntExpr(num.intValue());
    }
\}

| REAL:num
\{
\text{RESULT = new RealExpr(num.doubleValue()); }
\}

| FunctionCall:fc
\{
\text{RESULT = fc; }
\}
VariableReference ::= DOLLAR VariableName:varName
{
  // An empty qname prefix for a variable or parameter reference
  // should map to the null namespace and not the default URI.
  SyntaxTreeNode node = parser.lookupName(varName);

  if (node != null) {
    if (node instanceof Variable) {
      RESULT = new VariableRef((Variable)node);
    }
    else if (node instanceof Param) {
      RESULT = new ParameterRef((Param)node);
    }
    else {
      RESULT = new UnresolvedRef(varName);
    }
  }

  if (node == null) {
    RESULT = new UnresolvedRef(varName);
  }
};

FunctionCall ::= FunctionName:fname LPAREN RPAREN
{
  if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
    RESULT = new CurrentCall(fname);
  }
  else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, parser.EmptyArgs);
  }
  else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
  }
  else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
  }
  else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
  }
  else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
  }
  else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
  }
  else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
	n::

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
| {:
    if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
        parser.setMultiDocument(true);
        RESULT = new DocumentCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
        RESULT = new BooleanCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
        RESULT = new NotCall(fname, argl);
    }
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}

else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}

else if (parser.getQName(Translets.TRANSLET_URI, "xslt", "cast").equals(fname)) {

RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true);  // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
};

NonemptyArgumentList ::= Argument:arg
{: 
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
:}
| Argument:arg COMMA NonemptyArgumentList:argl
{: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
{: 
    RESULT = fname;
:};

VariableName ::= QName:vname
{: 
    RESULT = vname;
:};

Argument ::= Expr:ex
{: RESULT = ex; :};

NodeTest ::= NameTest:nt
{: RESULT = nt; :}
| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}
| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}
| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}
| PIPARAM LPAREN Literal:l RPAREN
QName name = parser.getQNameIgnoreDefaultNs("name");
Expression exp = new EqualityExpr(Operators.EQ,
    new NameCall(name),
    new LiteralExpr(l));
Vector predicates = new Vector();
predicates.addElement(new Predicate(exp));
RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
:

| PI |
| : RESULT = new Integer(NodeTest.PI); : |

NameTest ::= STAR
    [: RESULT = null; :]

| QName:qn |
| : RESULT = qn; : |

QName ::= QName:qname
    [: RESULT = parser.getQNameIgnoreDefaultNs(qname); :]

| DIV |
| : RESULT = parser.getQNameIgnoreDefaultNs("div"); : |

| MOD |
| : RESULT = parser.getQNameIgnoreDefaultNs("mod"); : |

| KEY |
| : RESULT = parser.getQNameIgnoreDefaultNs("key"); : |

| ANCESTOR |
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| ANCESTORORSELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); : |

| ATTRIBUTE |
| : RESULT = parser.getQNameIgnoreDefaultNs("attribute"); : |

| CHILD |
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| DESCENDANT |
| : RESULT = parser.getQNameIgnoreDefaultNs("descendant"); : |

| DESCENDANTORSELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); : |
| FOLLOWING
| :: RESULT = parser.getQNameIgnoreDefaultNs("following"); :

| FOLLOWINGSIBLING
| :: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :

| NAMESPACE
| :: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :

| PARENT
| :: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :

| PRECEDING
| :: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :

| PRECEDINGSIBLING
| :: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :

| SELF
| :: RESULT = parser.getQNameIgnoreDefaultNs("self"); :

| ID
| :: RESULT = parser.getQNameIgnoreDefaultNs("id"); :

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup
No license file was found, but licenses were detected in source scan.

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 */

// is found, then throw a special exception in order to terminate
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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 * distributed under the License is distributed on an "AS IS" BASIS,
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 * limitations under the License.
 */

/*
 * Execute the proprietary document-location() function, which returns
 * a node set of documents.
 * @xsl.usage advanced
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncDoclocation.java
No license file was found, but licenses were detected in source scan.

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* limitations under the License.
*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
* */

package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;
%
%%
%cup
%unicode
%class XPathLexer
%yyeof
%
{
int last;

void initialize() {
    last = -1;
}

static boolean isWhitespace(int c) {
    return (c == ' ' || c == '\t' || c == '\r' || c == '\n' || c == '\f');
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    int index = yy_buffer_index;

    // Ignore whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    } // If end of buffer, can't disambiguate :
    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    } // Return symbol if next token is '::' or '('
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
            yy_buffer[index] == '(') ?
        newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
        case -1: // first token
            case sym.ATSIGN:
            case sym.DCOLON:
            case sym.LPAREN:
            case sym.LBRACK:
            case sym.COMMA:
            case sym.AND:
            case sym.OR:
            case sym.MOD:
            case sym.DIV:
            case sym.MULT:
            case sym.SLASH:
            case sym.DS Radeon:
            case sym.VBAR:

            // Peek in the input buffer without changing the internal state
            int index = yy_buffer_index;

            // Skip whitespace
            while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
                index++;
            }

            // If end of buffer, can't disambiguate :
            if (index >= yy_buffer_read) {
                // Can't disambiguate, so return as symbol
                return new Symbol(ss);
            }

            // Return symbol if next token is '::' or '('
            return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
                    yy_buffer[index] == '(') ?
                newSymbol(ss) : newSymbol(sym.QNAME, yytext());
    }
}

/*
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
        case -1: // first token
            case sym.ATSIGN:
            case sym.DCOLON:
            case sym.LPAREN:
            case sym.LBRACK:
            case sym.COMMA:
            case sym.AND:
            case sym.OR:
            case sym.MOD:
            case sym.DIV:
            case sym.MULT:
            case sym.SLASH:
            case sym.DS Radeon:
            case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.QNAME, yytext());
}
return newSymbol(ss);
}

/**
* If symbol is first token or if it follows any of the operators
* listed in http://www.w3.org/TR/xpath#exprlex then treat as a
* wildcard instead of a multiplication operator
*/
Symbol disambiguateStar() throws Exception {
    switch (last) {
        case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.STAR);
    }
    return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}

%}
%eofval{
    return newSymbol(sym.EOF);
%eofval
%yylexthrow{
    Exception
%yylexthrow

Letter={BaseChar}|{Ideographic}

BaseChar=[u0041-u005A]u0061-u007A]u00C0-u00D6u00D8-u00F6u00F8-u00FFu0100-u0131u0134-
-u013Eu0141-u0148u014Au017Eu0180-u01C3u01CD-u01F0u01F4-u01F5u01FA-u0217u0250-
-u02A8u02BB-u02C1u0386u0388-u038Au038Cu038Eu03AIu03A3u03C3u03D0-
-u03D6u03D3u03DCu03E0u03E2-u03F3u0401-u040Cu040E-u044Fu0451-u045Cu045E-
-u0481u0490-u04C4u04C7-u04C8u04CB-u04CCu04D0-u04EBu04EE-u04F5u04F8-u04F9u0531-
-u0556u0559u0561-u0586u05D0-u05EAu05F0-u05F2u0621-u063Au0641-u064Au0671-u06B7u06BA-
-u06BEu06CO-u06CEu06D0-u06D3u06D5u06E5-u06E6u0905-u0939u093Du0958-u0961u0985-
-u098Cu098F-u0990u0993-u09A8u09A9u09BAu09B2u09B6-u09B9u09D0-u09DDu09DF-
-u09E1u09F0-u09F1u0A05-u0A0Au0A0F-u0A10u0A13-u0A28u0A2Au0A30u0A32-u0A33u0A35-
-u0A36u0A38-u0A39u0A59-u0A5Cu0A5Eu0A72-u0A74u0A85-u0A8Bu0A8Du0A8Fu0A91u0A93-
-u0AA8u0AB0u0AB2-u0AB3u0AB5-u0AB9u0ABDu0AE0u0B05-u0B0Cu0B0Fu0B10u0B13-
-u0B28u0B2Au0B30u0B32-u0B33u0B36-u0B39u0B3Du0B5Cu0B5Du0B5Fu0B61u0B85-
-u0B8Au0B8E-u0B90u0B92-u0B95u0B99-u0B9Au0B9Cu0B9Eu0B9Fu0B9Fu0B3A-
-u0BAu0BAEu0BB5u0BB7-u0BB9u0C05-u0C0Cu0C0Eu0C10u0C12-u0C28u0C2Au0C33u0C35-
-u0C39u0C60-u0C61u0C85-u0C8Cu0C8Eu0C90u0C92-u0CA8u0CAA-u0CB3u0CB5-
-u0CB9u0CDEu0CE0-u0CE1u0D05-u0DCu0DE0E-u0D10u0D12-u0D28u0D2Au0D39u0D60-
-u0D61u0E01-u0E2Eu0E30u0E32-u0E33u0E40-u0E45u0E81-u0E82u0E84u0E87-
-u0E88u0E8Au0E8Du0E94-u0E97u0E99-u0E9Fu0EA1-u0EA3u0EA5u0EA7u0EAA-u0EABu0EAD-
"+"  { return newSymbol(sym.PLUS); } 
"-"  { return newSymbol(sym.MINUS); } 
"\div"  { return disambiguateOperator(sym.DIV); } 
"\mod"  { return disambiguateOperator(sym.MOD); } 
"::"  { return newSymbol(sym.DCOLON); } 
","  { return newSymbol(sym.COMMA); } 
"@"  { return newSymbol(sym.ATSIGN); } 
".."  { return newSymbol(sym.DDOT); } 
"|"  { return newSymbol(sym.VBAR); } 
"\$"  { return newSymbol(sym.DOLLAR); } 
"//"  { return newSymbol(sym.DSLASH); } 
"="  { return newSymbol(sym.EQ); } 
"!="  { return newSymbol(sym.NE); } 
"<"  { return newSymbol(sym.LT); } 
">
"\<="  { return newSymbol(sym.LE); } 
">
"\>="  { return newSymbol(sym.GE); } 
"id"  { return disambiguateAxisOrFunction(sym.ID); } 
"key"  { return disambiguateAxisOrFunction(sym.KEY); } 
"text()"  { return newSymbol(sym.TEXT); } 
"text[|\t|\n|\f|\r|\"]()"  { return newSymbol(sym.TEXT); } 
"node()"  { return newSymbol(sym.NODE); } 
"node[|\t|\n|\f|\r|\"]()"  { return newSymbol(sym.NODE); } 
"comment()"  { return newSymbol(sym.COMMENT); } 
"comment[|\t|\n|\f|\r|\"]()"  { return newSymbol(sym.COMMENT); } 
"processing-instruction()"  { return newSymbol(sym.PI); } 
"processing-instruction[|\t|\n|\f|\r|\"]()"  { return newSymbol(sym.PI); } 
"or"  { return disambiguateOperator(sym.OR); } 
"and"  { return disambiguateOperator(sym.AND); } 
"child"  { return disambiguateAxisOrFunction(sym.CHILD); } 
"attribute"  { return disambiguateAxisOrFunction(sym.ATTRIBUTE); } 
"ancestor"  { return disambiguateAxisOrFunction(sym.ANCESTOR); } 
"ancestor-or-self"  { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); } 
"descendant"  { return disambiguateAxisOrFunction(sym.DESCENDANT); } 
"descendant-or-self"  { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); } 
"following"  { return disambiguateAxisOrFunction(sym.FOLLOWING); } 
"following-sibling"  { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); } 
"namespace"  { return disambiguateAxisOrFunction(sym.NAMESPACE); } 
"parent"  { return disambiguateAxisOrFunction(sym.PARENT); } 
"preceding"  { return disambiguateAxisOrFunction(sym.PRECEDING); } 
"preceding-sibling"  { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); } 
"self"  { return disambiguateAxisOrFunction(sym.SELF); } 
"["  { return newSymbol(sym.LBRACK); } 
"]"  { return newSymbol(sym.RBRACK); } 
"("  { return newSymbol(sym.LPAREN); } 
")"  { return newSymbol(sym.RPAREN); } 
"<\PATTERN>"  { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\["\\"\]|\"" { return newSymbol(sym.Literal,
        yytext().substring(1, yytext().length() - 1)); }
\["\\"]\"" { return newSymbol(sym.Literal,
        yytext().substring(1, yytext().length() - 1)); }
{Digit}+ { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+."{Digit}*? { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+ { return newSymbol(sym.REAL, new Double(yytext())); }
"." { return newSymbol(sym.DOT); }
({NCName}:)?({NCName}) { return newSymbol(sym.QNAME, yytext()); }
({NCName}:)?"*" { return newSymbol(sym.QNAME, yytext()); }
({NCName}:)?"@*" { return newSymbol(sym.QNAME, yytext()); }
[\t\n\r\f] { /* ignore white space. */
    throw new Exception(yytext()); }

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xsltc/compiler/xpath.lex
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*/
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
* Administrative class to keep track of the version number of
* the Xalan release.
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()
* @xsl.usage general
public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
*/
* Maintenance Drop Number.
* Optional identifier used to designate maintenance
* drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/

```java
public static final int MAINTENANCE = @version.MINOR@;
```

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */

```java
public static final int DEVELOPMENT = 0;
```

/**
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 */

```java
public static final String S_VERSION = PRODUCT+"."+LANGUAGE+" v."+VERSION+"."+RELEASE+"."
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
 : (""+MAINTENANCE));
```

```java{}
```
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html

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*/

// Proprietary, built in functions
/** current function string (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/LoadDocument.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_hu.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMEnhancedForDTM.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/If.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Choose.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemFallback.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanProperties.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/transformer/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xslt/trax/DOM2TO.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/templates/Stylesheet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/res/XSLTErrorsResources_zh_CN.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/dom/MultiValuedNodeHeapIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/ResultNameSpace.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/Axis.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
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1.657 zlib 1.2.11

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   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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Files: getopt.c
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**1.661 libsepol 2.4 2**

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1.662 python-defaults 2.7.11-1

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is licensed under the MIT License.
This is the Debian GNU/Linux prepackaged version of the Python programming
language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Breitrup <bsb@uni-muenster.de> and
Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final
2.3 version is released.
A. HISTORY OF THE SOFTWARE
==========================

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

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

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

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

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dh_python2, pycompile, pyclean and debpython module:
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1.663 zipp 3.4.0
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1.664 libsndfile 1.0.25

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This is a port of the SciMark2a Java Benchmark to C# by
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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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1.680 zlib 1.2.8

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1.681 pycryptodome 3.10.1

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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).

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1.682 go-openapi v0.19.6

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package spec

import (  
  "encoding/json"  
  "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  LicenseProps
  VendorExtensible
}

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

func (l *License) UnmarshalJSON(data []byte) error {
  if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
    return err
  }
  return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
  b1, err := json.Marshal(l.LicenseProps)
  return b1, err
}
if err != nil {
return nil, err
}
b2, err := json.Marshal(l.VendorExtensible)
if err != nil {
return nil, err
}
return swag.ConcatJSON(b1, b2), nil
}
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package spec
import (
"encoding/json"
"testing"
"github.com/stretchr/testify/assert"
)
var license = License{
LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}
const licenseJSON = `{
"name": "the name",
"url": "the url",
"x-license": "custom term"
}`
func TestIntegrationLicense(t *testing.T) {
const licenseYAML = "name: the name\nurl: the url\n"
b, err := json.MarshalIndent(license, "", "\t")
if assert.NoError(t, err) {

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 7918


assert.Equal(t, licenseJSON, string(b))
}

actual := License{}
err = json.Unmarshal([]byte(licenseJSON), &actual)
if assert.NoError(t, err) {
assert.EqualValues(t, license, actual)
}

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1.683 six 1.10.0

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1.684 libxi 1.7.6-1

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1.685 libtext-charwidth-perl 0.04-7build5

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1.688 slf4j 1.7.20

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.698 libxcursor 1:1.1.14-1

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

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

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

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

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

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

It may happen that this requirement contradicts the license
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1.708 spf13-pflag 1.0.5

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

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* A rewrite of the original Debian's start-stop-daemon Perl script
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*
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 */
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 * Set the \{code TCP_MD5SIG\} option on the socket. See \{code linux/tcp.h\} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
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  */opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/EpollServerDomainSocketChannel.java
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  */opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/EpollServerStreamChannelConfig.java

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- /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4.1.50-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
- /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4.1.50-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java

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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/netty_epoll_linuxsocket.c
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 */
/**
 * Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the { @code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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1.744 golang-snappy
674baa8c7fc30da5df3074a459494a7e6b427dff
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1.745 sudo 1.8.16 Oubuntu1.9

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Ackeret, Matt
Adler, Mark
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Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
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Hunter, Michael T.
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de Vries, Maarten
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Webb, Kirk
The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
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Hantrais, Frédric
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

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

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

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

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@sHELL -ec "$GEN_DEPS.c $< \n| sed "s/\([^\n]*\)\.[oO] [^[:space:]]*/\1.o $@ :/g" > $@; \n[ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@sHELL -ec "$GEN_DEPS.cc $< \n| sed "s/\([^\n]*\)\.[oO] [^[:space:]]*/\1.o $@ :/g" > $@; \n[ -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_MAJOR) $@

## End FreeBSD-specific setup

1.748 libvorbis 1.3.5 3ubuntu0.2
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787e5cffe2bb56.

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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## DOM Level 3 Core Specification v1.0

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1.757 jersey-common 2.22.2

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1.758 glibc 2.12

1.758.1 Available under license:

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Version 2, June 1991

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End

1.759 llvm 3.8 2ubuntu4

1.759.1 Available under license :

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s
;

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:     // %bb.0:
; CHECK-NEXT:   ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:   mov v0.d[1], v0.d[0]
; CHECK-NEXT:   ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
; 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
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define void @zext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'zext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    %A = zext <8 x i16> undef to <8 x i64>
    %B = zext <8 x i32> undef to <8 x i64>
    %C = zext <16 x i8> undef to <16 x i32>
    %D = zext <16 x i16> undef to <16 x i32>
    %E = zext <32 x i8> undef to <32 x i16>
    ret void
}

define void @zext512() "min-legal-vector-width"="512" {
    ; SKX256-LABEL: 'zext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    %A = zext <8 x i16> undef to <8 x i64>
    %B = zext <8 x i32> undef to <8 x i64>
    %C = zext <16 x i8> undef to <16 x i32>
    %D = zext <16 x i16> undef to <16 x i32>
    %E = zext <32 x i8> undef to <32 x i16>
    ret void
}

define void @zext512() "min-legal-vector-width"="512" {
    ; VEC512-LABEL: 'zext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    %A = zext <8 x i16> undef to <8 x i64>
    %B = zext <8 x i32> undef to <8 x i64>
    %C = zext <16 x i8> undef to <16 x i32>
    %D = zext <16 x i16> undef to <16 x i32>
    %E = zext <32 x i8> undef to <32 x i16>
    ret void
}
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; %A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; ; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
; %A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512() "min-legal-vector-width"="512" {
  AVX-LABEL: 'sext512'
  AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  SKX256-LABEL: 'sext512'
  SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  VEC512-LABEL: 'sext512'
  VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
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   LLVM Team

   University of Illinois at Urbana-Champaign

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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) {
; 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: 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, 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

define internal void @innerSmall() "min-legal-vector-width"="128" { 
    ret void 
}

define internal void @innerLarge() "min-legal-vector-width"="512" { 
    ret void 
}

define internal void @innerNoAttribute() { 
    ret void 
}

; We should not add an attribute during inlining. No attribute means unknown. 
; Inlining doesn't change the fact that we don't know anything about this 
; function. 
define void @outerNoAttribute() { 
    call void @innerLarge() 
    ret void 
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" { 
    call void @innerLarge() 
    ret void 
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" { 
    call void @innerSmall() 
    ret void 
}

; We should remove the attribute after inlining since the callee's 
; vector width requirements are unknown. 
define void @outerAttribute() "min-legal-vector-width"="128" { 
    call void @innerNoAttribute() 
    ret void 
}

; CHECK: define void @outerNoAttribute() { 
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: opt - consthoist -S-o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]?]!] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]?]!] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]?]!] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]?]!] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %[[M1:const_mat[0-9]?]!] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %8 = inttoptr i32 %[[C1]], 7
; CHECK-NEXT:  %9 = load volatile i8, i8* %8
; CHECK-NEXT:  %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %11 = add i32 %[[C4]], 31
; CHECK-NEXT:  %12 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT:  store i8 %5, i8* %12
; CHECK-NEXT:  %13 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT:  store i8 %7, i8* %11
; CHECK-NEXT:  %14 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT:  store i8 %3, i8* %13
; CHECK-NEXT:  %15 = add i32 %[[M6]], 80
; CHECK-NEXT:  %16 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT:  store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
entry:
%0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
%1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
%2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
%3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
%4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i16, i16* %0, align 2
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: add256:
  ; CHECK:      # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT: vpaddd 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT: vpaddd (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: add512:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT: vpaddd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: avg_v64i8_256:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
    ; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
    ; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqu %ymm1, (%rax)
    ; CHECK-NEXT: vmovdqu %ymm0, (%rax)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, %4
    %6 = lshr <64 x i32> %5, %2
    %7 = trunc <64 x i32> %6 to <64 x i8>
    store <64 x i8> %7, <64 x i8>* undef, align 4
    ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: avg_v64i8_512:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
    ; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
    ; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqu %ymm1, (%rax)
    ; CHECK-NEXT: vmovdqu %ymm0, (%rax)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, %4
    %6 = add nuw nsw <64 x i32> %5, %2
    %7 = lshr <64 x i32> %6, %2
    %8 = trunc <64 x i32> %7 to <64 x i8>
    store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width=""256" {
    ; CHECK-LABEL: pmaddwd_32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:  vpmaddwd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}
define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {  
    ; CHECK-LABEL: pmaddwd_32_512:  
    ; CHECK:   # %bb.0:  
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0  
    ; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0  
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)  
    ; CHECK-NEXT: vzeroupper  
    ; CHECK-NEXT: retq  
    %A = load <32 x i16>, <32 x i16>* %APtr  
    %B = load <32 x i16>, <32 x i16>* %BPtr  
    %a = sext <32 x i16> %A to <32 x i32>  
    %b = sext <32 x i16> %B to <32 x i32>  
    %m = mul nsw <32 x i32> %a, %b  
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32>  
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32>  
    %ret = add <16 x i32> %odd, %even  
    store <16 x i32> %ret, <16 x i32>* %CPtr  
    ret void  
}  

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: psubus_64i8_max_256:  
    ; CHECK:   # %bb.0:  
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
    ; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1  
    ; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0  
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)  
    ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)  
    ; CHECK-NEXT: vzeroupper  
    ; CHECK-NEXT: retq  
    %x = load <64 x i8>, <64 x i8>* %xptr  
    %y = load <64 x i8>, <64 x i8>* %yptr  
    %cmp = icmp ult <64 x i8> %x, %y  
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x  
    %res = sub <64 x i8> %max, %y  
    store <64 x i8> %res, <64 x i8>* %zptr  
    ret void  
}  

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {  
    ; CHECK-LABEL: psubus_64i8_max_512:  

; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:  vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %y.ptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %z.ptr
ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL:  _Z9test_charPcS_i_256:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:   movl %edx, %eax
; CHECK-NEXT:   vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:   xorl %ecx, %ecx
; CHECK-NEXT:   vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:   vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT:   .p2align 4, 0x90
; CHECK-NEXT:   .LBB8_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT:    vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm4
; CHECK-NEXT:    vpaddd %ymm2, %ymm1, %ymm2
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm1
; CHECK-NEXT:    vpsubusb (\ldots+\ldots) xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpaddd %ymm1, %xmm0, %xmm0
; CHECK-NEXT:    vpsubusb (\ldots+\ldots) xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpaddd %ymm1, %xmm0, %xmm0

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entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi %32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> %i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
define i32 @_Z9test_charPCiSi_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: _Z9test_charPCiSi_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB9_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
    ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB9_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpshufb {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm0
    ; CHECK-NEXT:    vmovd %xmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    entry:
    %3 = zext i32 %2 to i64
    br label %vector.body

    vector.body:
    %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
    %vec.phi = phi <32 x i32> [ %index.next, %vector.body ], [ zeroinitializer, %entry ]
    %4 = getelementptr inbounds i8, i8* %0, i64 %index
    %5 = bitcast i8* %4 to <32 x i8>*
    %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
    %6 = sext <32 x i8> %wide.load to <32 x i32>
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%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00

; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB10_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT:  vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-NEXT:  vpaddd %ymm1, %ymm2, %ymm1
; CHECK-NEXT:  addq $4, %rax
; CHECK-NEXT:  jne .LBB10_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vextracti128 %s1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %ymm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vextracti128 %s1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %ymm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vmovd %ymm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
  br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1> %10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef>, <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
  ; CHECK-LABEL: sad_16i8_512:
  ; CHECK:       # %bb.0: # %entry
  ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB11_1: # %vector.body
  ; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:  vmovdqu a+1024(%rax), %xmm1
  ; CHECK-NEXT:  vpsadbw b+1024(%rax), %xmm1, %xmm1
  ; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:  addq $4, %rax
  ; CHECK-NEXT:  jne .LBB11_1
  ; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:  vpshufd [{[*#+]}] xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:  vpshufd [{[*#+]}] xmm1 = xmm0[1,1,2,3]
  ; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:  vmovd %xmm0, %eax
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
entry:
  br label %vector.body

vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i32> [ zeronitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%2 = wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %lcssa, <16 x i32> undef, <16 x i32>, <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32>, <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32>, <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32>, <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitiializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %ymmm0
; CHECK-NEXT:  vcvtdq2pd %ymmm0, %ymmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymmm0
; CHECK-NEXT:  vpmovm2d %k0, %ymmm2
; CHECK-NEXT:  vcvtdq2pd %ymm2, %ymmm3
; CHECK-NEXT:  vextracti128 $1, %ymmm2, %xmm2
; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymmm2
; CHECK-NEXT:  vmovaps %ymmm2, 32(%rdi)
; CHECK-NEXT:  vcvtdq2pd %ymmm3, (%rdi)
; CHECK-NEXT:  vmovaps %ymmm0, 96(%rdi)
; CHECK-NEXT:  vcvtdq2pd %ymmm1, 64(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtqd2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtqd2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitiializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtqd2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT: vcvtqd2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitiializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm1
; CHECK-NEXT: vcvtqd2ps %zmm0, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtqd2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitiializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f64_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
  ; CHECK-NEXT:    vpsrlw $8, %k0, %k1
  ; CHECK-NEXT:    vpsrld $31, %ymmm0, %ymmm0
  ; CHECK-NEXT:    vcvtdq2pd %ymm0, %ymm1
  ; CHECK-NEXT:    vextracti128 $1, %ymmm0, %xmm0
  ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
  ; CHECK-NEXT:    vmovaps %ymmm0, 32(%rdi)
  ; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  ; %mask = icmp slt <16 x i16> %a, zeroinitializer
  ; %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f64_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vpmovw2m %ymmm0, %k0
  ; CHECK-NEXT:    vpmovm2d %k0, %ymmm0
  ; CHECK-NEXT:    vpsrlw $31, %ymmm0, %ymmm0
  ; CHECK-NEXT:    vpsrlw $31, %ymmm0, %ymmm0
  ; CHECK-NEXT:    vextracti64x4 $1, %ymmm0, %xmm0
  ; CHECK-NEXT:    vextracti128 $1, %ymmm0, %ymm0
  ; CHECK-NEXT:    vpmovm2d %k0, %ymmm0
  ; CHECK-NEXT:    vpsrlw $31, %ymmm0, %ymmm0
  ; CHECK-NEXT:    vextracti64x4 $1, %ymmm0, %ymm0
  ; CHECK-NEXT:    vextracti128 $1, %ymmm0, %ymm0
  ; CHECK-NEXT:    vmovaps %ymmm0, 64(%rdi)
  ; CHECK-NEXT:    vmovaps %ymmm1, 64(%rdi)
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  ; %mask = icmp slt <16 x i16> %a, zeroinitializer
  ; %1 = uitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %1, <16 x double>* %res
  ret void
}
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: test_16f32toub_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vcvttps2dq (%rdi), %ymm1
  ; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
  ; CHECK-NEXT:  vpmovd2m %ymm1, %k0
  ; CHECK-NEXT:  vcvttps2dq 32(%rdi), %ymm1
  ; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
  ; CHECK-NEXT:  vpmovd2m %ymm1, %k1
  ; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
  ; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
  ; CHECK-NEXT:  retq
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptoui <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: test_16f32toub_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
  ; CHECK-NEXT:  vpslld $31, %zmm1, %zmm1
  ; CHECK-NEXT:  vpmovd2m %zmm1, %k1
  ; CHECK-NEXT:  vcvttps2dq 32(%rdi), %zmm1
  ; CHECK-NEXT:  vpslld $31, %zmm1, %zmm1
  ; CHECK-NEXT:  vpmovd2m %zmm1, %k1
  ; CHECK-NEXT:  vpackwb %k0, %k1, %k1
  ; CHECK-NEXT:  vmovdqu16 %zmm0, %zmm0 {%k1} {z}
  ; CHECK-NEXT:  retq
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptoui <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: test_16f32tosb_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vcvttps2dq (%rdi), %ymm1
  ; CHECK-NEXT:  vpmovd2m %ymm1, %k0
  ; CHECK-NEXT:  vcvttps2dq 32(%rdi), %ymm1
  ; CHECK-NEXT:  vpmovd2m %ymm1, %k1
  ; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
  ; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
  ; CHECK-NEXT:  retq
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptoui <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: test_16f32tosb_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
  ; CHECK-NEXT:  vpmovd2m %zmm1, %k1
  ; CHECK-NEXT:  vcvttps2dq 32(%rdi), %zmm1
  ; CHECK-NEXT:  vpmovd2m %zmm1, %k1
  ; CHECK-NEXT:  vpackwb %k0, %k1, %k1
  ; CHECK-NEXT:  vmovdqu16 %zmm0, %zmm0 {%k1} {z}
  ; CHECK-NEXT:  retq
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptoui <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}
define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32tosb_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitialize
    ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: mul256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm4 = ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ymm0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[31]
    ; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm5 = ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]
    ; CHECK-NEXT:    vpunpckhlbw {{.*#+}} ymm6 = ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ymm0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[31]
    ; CHECK-NEXT:    vpand %ymm5, %ymm4, %ymm4
    ; CHECK-NEXT:    vpand %ymm5, %ymm4, %ymm4
    ; CHECK-NEXT:    vpunpckhlbw {{.*#+}} ymm6 = ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ymm0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[31]
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = mul <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = mul <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = mul <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = mul <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
; CHECK-LABEL: mload_v4i32:
; CHECK:     # %bb.0:
; CHECK-NEXT: vptestnmd %xmm0, %xmm0, %k1
; CHECK-NEXT: vpbld (%rdi), %xmm1, %xmm0 {%k1}
; CHECK-NEXT: retq
%mask = icmp eq <4 x i32> %trigger, zeroinitializer
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32 4, <4 x i1> %mask, <4 x i32> %dst)
ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32 4, <4 x i1>, <4 x i32>)
RUN: opt -S -argpromotion < %s | FileCheck %s
RUN: opt -S -passes=argpromotion < %s | FileCheck %s
Test that we only promote arguments when the caller/callee have compatible
function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1) #0 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1.store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2.store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #1 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1.store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1.val)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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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
 }

declare fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
 ; CHECK-LABEL: TestFabs:
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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* configure.ac, Makefile.am: The original versions were derived from the
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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 piostream 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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1.766 asyncio 3.4
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Metadata-Version: 1.1
Name: asyncio
Version: 3.4.1
Summary: reference implementation of PEP 3156
Home-page: http://www.python.org/dev/peps/pep-3156/
Author: UNKNOWN
Author-email: UNKNOWN
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Description: Tulip is the codename for my reference implementation of PEP 3156.

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Tests are in the 'tests' subdirectory.

To run tests:
- make test

To run coverage (coverage package is required):
- make coverage

On Windows, things are a little more complicated. Assume 'P' is your Python binary (for example C:\Python33\python.exe).

You must first build the _overlapped.pyd extension and have it placed in the asyncio directory, as follows:

C> P setup.py build_ext --inplace

Then you can run the tests as follows:

C> P runtests.py

And coverage as follows:

C> P runtests.py --coverage

--Guido van Rossum <guido@python.org>
Tulip is the codename for my reference implementation of PEP 3156.

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1.767 Linux-kernel 4.15.0-64.73~16.04.1

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a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
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
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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.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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/* 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;

Open Source Used In HyperFlex HX Data Platform 5.0(1a)  8787
* 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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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

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

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

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

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* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/CandidateCycleCompletionHandler.java
* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ConsoleRunner.java
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* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/CompletionHandler.java
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* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/CandidateListCompletionHandler.java
* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/Completer.java
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1.777 javax-ws-rs-api 2.1.1

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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 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
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modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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during execution displays copyright notices, you must include the
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directing the user to the copy of this License. Also, you must do one
of these things:

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

b) 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
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specified materials from the same place.

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
reproducing the executable from it. However, as a special exception,
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
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######################################################################
## Constant-time SSSE3 AES core implementation.
## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
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##
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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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1.795 dh-python 2.20151103ubuntu1.1

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* /opt/cola/permits/1127084417_1611785502.92/0/kjd-idna-v2-0-0-gbb6e94c-1-tar-gz/kjd-idna-1cdd421/LICENSE.rst

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```python
import sys
from setuptools import setup
import io

version = "2.0"

def main():
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```python
```
python_version = sys.version_info[:2]
if python_version < (2,6):
    raise SystemExit("Sorry, Python 2.6 or newer required")

arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': 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 :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1127084417_1611785502.92/0/kjd-idna-v2-0-0-gbb6e94c-1-tar-gz/kjd-idna-1cdd421/setup.py

1.800 reflections 0.9.9
1.801 x11proto-kb 1.0.7-0ubuntu1

1.801.1 Available under license:

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1.802 kubernetes 1.21.2

1.802.1 Available under license:

package types

import "time"

// FeatureType store features types
type FeatureType string

const (
    // HA means High Availability
    HA = FeatureType("HA")
    // DEV means developer licence
    DEV = FeatureType("DEV")
    // TRIAL means trial licence
    TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {
    ArrayUUID    string `json:"arrayUUID,omitempty"`
    ClusterID    string `json:"clusterID,omitempty"`
    CustomerID   string `json:"customerID"`
    CustomerName string `json:"customerName"`
    Storage      int    `json:"storage"`
    ValidUntil   time.Time `json:"validUntil"`
    LicenceType  string `json:"licenceType"`
    Features     map[FeatureType]bool `json:"features"`
    Unregistered bool `json:"unregistered"`
}

// LicenceKeyContainer - stores a licence key

type LicenceKeyContainer struct {
    Key string `json:"key"`
}

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package spec

// License information for the exposed API.
//
// 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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type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v` `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v` `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += `is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += `is added as a default in " + n.Version + "."
    } else {
        s += `is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v`.`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

= vendor/github.com/golang/protobuf/LICENSE 939cce1ec101726fa754e698ac871622
package migration

import "fmt"


const (
// The following statuses are used to indicate the state of support/deprecation in a given release.
deprecated = "deprecated" // deprecated, but still completely functional
ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
the Corefile
newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present
in the corefile.
supported = "unsupported" // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses
)

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{% panel style="success", title="Providing Feedback" %}
**Provide feedback at the [survey](https://www.surveymonkey.com/r/JH35X82)**
{% endpanel %}

{% panel style="info", title="TL;DR" %}
- Copy files to and from Containers in a cluster
{% endpanel %}
# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

{% method %}
## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`

{% sample lang="yaml" %}
```
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
{% endmethod %}

{% method %}
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`

{% sample lang="yaml" %}
```
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
{% endmethod %}

{% method %}
## Specify the Container

Specify the Container within a Pod running multiple containers.
- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
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import (  
"encoding/json"
)

import (  
"github.com/storageos/go-api/types"
)

const (  
// licenceAPIPrefix is a partial path to the HTTP endpoint.  
licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.  
func (c *Client) Licence() (*types.Licence, error) {
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{})
```go
if err != nil {
    return nil, err
}
defer resp.Body.Close()
licence := &types.Licence{}
if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {
    return nil, err
}
return licence, nil

// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {
    _, err := c.do("POST", licenceAPIPrefix, doOptions{
        data: &types.LicenceKeyContainer{Key: licenceKey},
    })
    return err
}

// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{ })
    if err != nil {
        return err
    }
    return resp.Body.Close()
}

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tomb - support for clean goroutine termination in Go.

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package simulator

)

// EvalLicense is the default license
Key: "feature",
Value: types.KeyValue{
   Key: "dvs",
   Value: "vSphere Distributed Switch",
}
}

```
type LicenseManager struct {
   mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
   m := &LicenseManager{
   m.Self = ref
   m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

   if Map.IsVPX() {
      am := Map.Put(&LicenseAssignmentManager{}).Reference()
      m.LicenseAssignmentManager = &am
   }

   return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
   body := &methods.AddLicenseBody{
      Res: &types.AddLicenseResponse{},
   }

   for _, license := range m.Licenses {
      if license.LicenseKey == req.LicenseKey {
         body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
         return body
      }
   }

   m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
      LicenseKey: req.LicenseKey,
      Labels: req.Labels,
   })

   body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

   return body
}
```
func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
                } else {
                    label.Value = req.LabelValue
                }
                return body
            }
        }

        license.Labels = append(license.Labels, types.KeyValue{
            Key:   req.LabelKey,
            Value: req.LabelValue,
        })

    return body
    }

    body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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

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  cmd/krb5/slave/kpropd_rpc.c
  lib/gss_mechs/mech_krb5/et/kdb5_err.c
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  lib/libgss/g_exp_sec_context.c
  lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
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lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in:

- `src/lib/gssapi/gssapi_err_generic.c`
- `src/lib/gssapi/gssapi.c`
- `src/lib/gssapi/mechglue/g_accept_sec_context.c`
- `src/lib/gssapi/mechglue/g_acquire_cred.c`
- `src/lib/gssapi/mechglue/g_canon_name.c`
- `src/lib/gssapi/mechglue/g_compare_name.c`
- `src/lib/gssapi/mechglue/g_context_time.c`
- `src/lib/gssapi/mechglue/g_delete_sec_context.c`
- `src/lib/gssapi/mechglue/g_exp_sec_context.c`
- `src/lib/gssapi/mechglue/g_dup_name.c`
- `src/lib/gssapi/mechglue/g_dsp_name.c`
- `src/lib/gssapi/mechglue/g_dsp_status.c`
- `src/lib/gssapi/mechglue/g_dup_status.c`
- `src/lib/gssapi/mechglue/gExpseccontext.c`
and the initial implementation of incremental propagation, including the following new or changed files:

- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.x`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/kdb/kdb_log.h`
- `lib/krb5/error_tables/kdb5_err.et`
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.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g dsp_name.c
    lib/gssapi/mechglue/g dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g initialize.c
    lib/gssapi/mechglue/g inquire_context.c
    lib/gssapi/mechglue/g inquire_cred.c
    lib/gssapi/mechglue/g inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g rel_buffer.c
    lib/gssapi/mechglue/g rel_cred.c
    lib/gssapi/mechglue/g rel_name.c
    lib/gssapi/mechglue/g rel_oid_set.c
    lib/gssapi/mechglue/g seal.c
    lib/gssapi/mechglue/g sign.c
    lib/gssapi/mechglue/g store_cred.c
    lib/gssapi/mechglue/g unseal.c
    lib/gssapi/mechglue/g userok.c
    lib/gssapi/mechglue/g Utils.c
    lib/gssapi/mechglue/g verify.c
    lib/gssapi/mechglue/gssd pname_to uid.c
    lib/gssapi/mechglue/mglueP.h
    lib/gssapi/mechglue/oid_ops.c
    lib/gssapi/spnego/gssapiP_spnego.h
    lib/gssapi/spnego/spnego_mech.c

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.. parsed-literal::

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

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    FILE_SUFFIX: '.html',
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</div>
</div>

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
and the initial implementation of incremental propagation, including the following new or changed files:

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

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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
        # DB2 licenses start with '/**' and we don't want to change them.
        if line != '' and line != '/*-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ ]*) - .*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
        line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
       code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    elif line.strip() != '':
     code_seen = True
     ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
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1.817 kerby-asn1 2.0.0

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1.819 jackson-jaxrs 2.4.5

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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DES core in libhcrypto

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D3DES (V5.09) -

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lib/hcrypto/test_dh.c

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.829 servlet-api 2.5
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1.833 sensible-utils 0.0.9

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1.834 isc-dhcp 4.3.3-5ubuntu12.9

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1.835 idna 2.5

1.835.1 Available under license:

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```
Metadata-Version: 1.1
Name: idna
Version: 2.5
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
```
Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_. 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('_statuses')
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
    .

    # Python 2
    >>> import idna
    >>> idna.encode(u'_statuses')
    '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:
$ pip install idna

Alternatively, you can install the package using the bundled setup script:

$ python setup.py install

This library works with Python 2.6 or later, and Python 3.3 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.

```python
# 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:

```python
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```python
# Python 2
>>> idna.alabel(u'.')
```
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.

.. code-block:: python

    # Python 3
    >>> import idna
    >>> idna.encode(u'Königsgäßchen')
    ...
    idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
    >>> idna.encode('Königsgäßchen', uts46=True)
    b'xn--knigsgchen-b4a3dun'
    >>> print(idna.decode('xn--knigsgchen-b4a3dun'))
    königsgäßchen

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:: python

    # 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.)

Testing

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
Classifier: Intended Audience :: System Administrators
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Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
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-------

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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.

```python
import io, sys
from setuptools import setup

version = "2.5"

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': 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 :: 2.6',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'test_suite': 'tests',
    }
```
setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1133406498_1620110696.99/0/idna-2.5-tar-gz/idna-2.5/setup.py

1.836 cups 2.1.3 4
1.836.1 Available under license :
usr/sbin/lpc
usr/bin/lpq
usr/bin/lpr
usr/bin/lprm
usr/share/man/man1/lpr.1.gz
usr/share/man/man1/lprm.1.gz
usr/share/man/man1/lpq.1.gz
usr/share/man/man8/lpc.8.gz

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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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END OF TERMS AND CONDITIONS

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
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To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
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the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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when it starts in an interactive mode:

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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
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mouse-clicks or menu items--whatever suits your program.

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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Preamble

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

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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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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 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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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
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under terms of your choice, provided that the terms permit
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directing the user to the copy of this License. Also, you must do one
of these things:

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

b) Accompany the work with a written offer, valid for at
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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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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/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/base/Preconditions.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collect/Interners.java
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/cache/Striped64.java

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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedSet.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/primitives/Booleans.java
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jar/jersey/repackaged/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/escape/ArrayBasedCharEscaper.java
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user can modify the Library and then relink to produce a modified
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copy of the library already present on the user's computer system,
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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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Tests included here are based on build output generated by the six-speed benchmark suite.

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THE BASIC LIBRARY FUNCTIONS
----------------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,

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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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++++++++++++++++

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 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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You may charge a fee for the physical act of transferring a copy,
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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.

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END OF TERMS AND CONDITIONS

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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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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

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

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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:

   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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1.866 google-go-cmp 0.5.5

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1.868 jackson-module-paranamer 2.11.0

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*/ Identifier characters: */
*/   * Letters a-z */
*/   * Letters A-Z */
*/   * Underscore */
*/   * Numbers 0-9 */
*/ 
*/ Punctuation: */
*/   * Period, plus, dash, slash, asterisk, percent, angled brackets, */
*/     square brackets, parentheses, braces, caret, vertical bar, */
*/     ampersand, tilde, equals, exclamation point, colon, semicolon, */
*/     comma, and question mark */
*/ 
*/ Special: */
*/   * Number sign (as used in preprocessor) */
*/   * Backslash just before newline as line continuation */
*/ 
*/ White space: */
*/   * Space, horizontal tab, vertical tab, form feed, carriage-return, */
*/     and line-feed. */
*/ 
* [GLSL Language Specification 4.30.6, section 3.1] */
*/ 
* In this file, we test each of these in turn as follows: */
*/   * Identifier characters: All pass through unchanged */
*/   * Punctuation: All pass through unchanged */
*/   * Special: Empty directive replaced with blank line */
*/     Line continuation merges two lines, then a blank line */
*/   * Whitespace: 4 horizontal space characters each replaced with space */
*/     2 newline characters each replaced with a newline */
*/ */
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
_
0123456789
.
+
-
/
*
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<link rel="stylesheet" type="text/css" href="mesa.css">
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<body>

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<p>

</p>

</div>

</body>
</html>
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include/GL/gl.h :
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include/GL/glxext.h
include/GL/wglxext.h:

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Manifest-Version: 1.0
Bnd-LastModified: 1472011116283
Build-Jdk: 1.7.0_79
Built-By: tatu
Bundle-Description: Woodstox is a high-performance XML processor that implements Stax (JSR-173), SAX2 and Stax2 APIs
1.885 base-passwd 3.5.39

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include/bsd/unistd.h
src/bsd_getopt.c
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include/bsd/netinet/ip_icmp.h
include/bsd/sys/bitstring.h
include/bsd/sys/queue.h
include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3
man/explicit_bzero.3
man/fgetln.3
man/fgetwln.3
man/funopen.3bsd
man/getbsize.3
man/heapsort.3
man/nlist.3
man/queue.3bsd
man/radixsort.3
man/reallocarray.3
man/reallocf.3
man/setmode.3
man/strmode.3
man/strnstr.3
man/unvis.3
man/vi.3
man/wcsleny.3
src/getbsize.c
src/heapsort.c
src/merge.c
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man/stringlist.3
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man/closefrom.3
man/flopen.3
man/getpeereid.3
man/pidfile.3
src/expand_number.c
src/hash/sha512.h
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man/readpassphrase.3
man/strlcpy.3
man/strtonum.3
src/arc4random.c
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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src/hash/helper.c
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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `case (a, b) => ...`

    val x: ((Int, Int) => Int) = (((a, b)) => a)

^ not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `case (param1, param2) => ...`

    val y: ((Int, Int) => Int) = (((a, !!)) => a)

^ not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

    Either create a single parameter accepting the Tuple3,
    or consider a pattern matching anonymous function: `case (param1, ..., param3) => ...`

    val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

^ three errors found

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1.890 tomcat-jdbc 8.5.32

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1.894 curator-x-discovery 2.4.3

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long_description = ""

ntplib - Python NTP library

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

Description

1.899 ntplib 0.3.4

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long_description = ""

ntplib - Python NTP library

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

Description
This module offers a simple interface to query NTP servers from Python.

It also provides utility functions to translate NTP fields values to text (mode, leap indicator...). Since it’s pure Python, and only depends on core modules, it should work on any platform with a Python implementation.

Example
-------

```python
>>> import ntplib
>>> from time import ctime
>>> c = ntplib.NTPClient()
>>> response = c.request('europe.pool.ntp.org', version=3)
>>> response.offset
-0.143156766891
>>> response.version
3
>>> ctime(response.tx_time)
'Sun May 17 09:32:48 2009'
>>> ntplib.leap_to_text(response.leap)
'no warning'
>>> response.root_delay
0.0046844482421875
>>> ntplib.ref_id_to_text(response.ref_id)
193.190.230.66
```

Installation
------------

As root::

```
# python setup.py install
```

or just copy ntplib.py inside a directory in your sys.path, e.g.

`'/usr/lib/python2.5/'`

```python
setup(name='ntplib',
      version='0.3.4',
      description='Python NTP library',
      author='Charles-Francois Natali',
      author_email='cf.natali@gmail.com',
      url='https://github.com/cf-natali/ntplib',
      py_modules=['ntplib'],
)```
license='MIT',
classifiers=[
    'License :: OSI Approved :: MIT License',
    'Programming Language :: Python',
    'Operating System :: OS Independent',
    'Topic :: System :: Networking :: Time Synchronization'
],
long_description=long_description
)

Found in path(s):
* /opt/cola/permits/1155056166_1618924968.40/cf-natali-ntplib-0.3.4-0-gaea7925-tar-gz/cf-natali-ntplib-
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version 0.3.3 - 2015-07-27
--------------------------
- Change to more permissive MIT license

version 0.3.2 - 2014-02-02
--------------------------
- PEP8 cleanup
- Update descriptions to match RFC 5905. Patch by Yann Ilas.

version 0.3.1 - 2013-07-03
--------------------------
- cleanup
- update FSF address

version 0.3.0 - 2012-09-01
--------------------------
- add a `timeout` parameter to NTPClient.request()
- rewrite tests using the unittest module, add many tests
- cleanup

version 0.2.0 - 2012-04-01
--------------------------
- cleanup
- raise a NTPException when no response is received from server

version 0.1.8 - 2010-02-20
--------------------------
- change to LGPL license
- cleanup

version 0.1.7 - 2009-12-24
--------------------------
- cleanup
- fix delay computation (thanks to Michael Frère for pointing that out)

version 0.1.6 - 2009-11-01
--------------------------
- cleanup
- when the server doesn't respond within a reasonable interval, let the application handle socket.timeout

version 0.1.5 - 2009-07-13
--------------------------
- perform stricter source check upon reception of a response
- small cleanup

version 0.1.4 - 2009-06-04
--------------------------
- add properties to NTPStats to have timestamps converted to local time

version 0.1.3 - 2009-05-18
--------------------------
- fix root delay and root dispersion computation

version 0.1.2 - 2009-05-17
--------------------------
- create request packet after name resolution to avoid name resolution delay

version 0.1.1 - 2009-05-16
--------------------------
- cleanup to conform to PEP 8
- when the server doesn't respond within a reasonable interval, raise a NTPException instead of a socket.timeout
- change initial values used to check the source address in NTPClient.request to (None, None), simpler and cleaner

version 0.1.0 - 2009-05-14
--------------------------
- initial release

Found in path(s):
* /opt/cola/permits/1155056166_1618924968.4/0/cf-natali-ntplib-0-3-4-0-gaea7925-tar-gz/cf-natali-ntplibaea7925/CHANGELOG
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From strings/apr_strnatcmp.c, include/apr_strings.h:
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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d) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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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.

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

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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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1.909 python 3.5.2 2ubuntu0~16.04.12
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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.

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* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/HttpCookie.java
* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/HttpField.java
* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/HttpMethod.java
* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/HttpGenerator.java
* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/HttpHeaderValue.java
* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/HttpURI.java
* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/HttpStatus.java
* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/MimeTypes.java
* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/HttpParser.java
* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/package-info.java
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* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/HttpScheme.java
* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/HttpFields.java
* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/HttpTokens.java
* /opt/cola/permits/1151111323_1617788615.26/0/jetty-http-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/http/HttpVersion.java
1.911 e2fsprogs 1.42.13-1ubuntu1

1.911.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library 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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/*
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

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

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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.

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

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

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medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license
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distribute.

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

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

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$ (BSD_LIB)

$(BSD_LIB): $(OBJECTS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJECTS))
$(MV) pic/$ (BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))

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

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Gadi Oxman, August 1995

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customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
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The source code for a work means the preferred form of the work for
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associated interface definition files, plus the scripts used to
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1.912 mock 1.3.0

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1.913 attr 2.4.47-2

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Theodore Ts'o
23-June-2007

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

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

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

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

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

image:$(BSD_LIB)

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

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$((INSTALL_PROGRAM) $(BSDLIB_INSTALL_DIR)/$(BSD_LIB))
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(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 $(BSD_LIB)
$(RM) -f ../../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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Gadi Oxman, August 1995

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

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Version 2, June 1991

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1.925 incremental 16.10.1-2.ph2

1.925.1 Available under license:

Incremental
----------

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1.926 python-defaults 3.5.1-3
1.926.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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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
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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py3compile, py3clean and debpython module:
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1.927 grub2 2.02~beta2-36ubuntu3.11

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1.931 curator-framework 2.12.0

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_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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Version 2, June 1991

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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
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for the nxt2004 frontend driver

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for merging the nxt2002 and nxt2004 modules into a
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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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1.944 ntp 4.2.8p4+dfsg-3ubuntu5.4

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48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io.netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io.netty/handler/ssl/ThreadLocalInsecureRandom.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io.netty/handler/ipfilter/package-info.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io.netty/handler/ipfilter/ssl/OpenSslContext.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io.netty/handler/ipfilter/ssl/JdkSslEngine.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io.netty/handler/ipfilter/ssl/SniHandler.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io.netty/handler/ipfilter/ssl/OpenSslApplicationProtocolNegotiator.java
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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io.netty/handler/ipfilter/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io.netty/handler/ipfilter/ssl/JsllUtils.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io.netty/handler/ipfilter/ApplicationProtocolConfig.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/OpenSslEngineMap.java
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* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/SslProvider.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ipfilter/IPFilterRuleType.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/cola/permits/115111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/OpenSslServerContext.java
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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/SslContext.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ipfilter/IpFilterRule.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/OpenSslX509Certificate.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/PemReader.java

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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/PemKeyMaterialManager.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/FlushConsolidationHandler.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java

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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3.jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3.jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3.jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3.jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3.jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3.jar/io/netty/handler/ssl/OpenSslSession.java

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  jar/io/netty/handler/ssl/Ocsp/package-info.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/Ocsp/OcspClientHandler.java
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jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
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  jar/io/netty/handler/ssl/SslHandler.java
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  jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/timeout/IdleState.java
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Found in path(s):

1.946 shared-mime-info 1.5 2ubuntu0.1

1.946.1 Available under license:

This package was debianized by Filip Van Raemdonck (mechanix@debian.org) on Thu, 4 Jul 2002 20:59:23 +0200.

It was downloaded from http://freedesktop.org/wiki/Software/shared-mime-info.

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* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20.7.0-1-tar-gz/setuptools-20.7.0/setup.py
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Metadata-Version: 1.1
Name: setuptools
Version: 20.7.0
Summary: Easily download, build, install, upgrade, and uninstall Python packages
Home-page: https://github.com/pypa/setuptools
Author: Python Packaging Authority
Author-email: distutils-sig@python.org
License: UNKNOWN
Description: ================================
            Installing and Using SetupTools
            collapsed
            .. contents:: **Table of Contents**
            `Change History <https://pythonhosted.org/setuptools/history.html>`_`

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

Installation Instructions
------------------------------------------

The recommended way to bootstrap setuptools on any system is to download
`ez_setup.py` and run it using the target Python environment. Different
operating systems have different recommended techniques to accomplish this
basic routine, so below are some examples to get you started.

Setup tools requires Python 2.6 or later. To install setup tools
on Python 2.4 or Python 2.5, use the `bootstrap script for Setup tools 1.x`
The link provided to ez_setup.py is a bookmark to bootstrap script for the latest known stable release.

```
.. _ez_setup.py: https://bootstrap.pypa.io/ez_setup.py
```

Windows (Powershell 3 or later)

For best results, uninstall previous versions FIRST (see `Uninstalling_`).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple Powershell command:

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -
```

You must start the Powershell with Administrative privileges or you may choose to install a user-local installation:

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python --user
```

If you have Python 3.3 or later, you can use the ``py`` command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed:

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -
```

The recommended way to install setuptools on Windows is to download `ez_setup.py` and run it. The script will download the appropriate distribution file and install it for you.

Once installation is complete, you will find an `easy_install` program in your Python `Scripts` subdirectory. For simple invocation and best results, add this directory to your `PATH` environment variable, if it is not already present. If you did a user-local install, the `Scripts` subdirectory is `$env:APPDATA\Python\Scripts`.

Windows (simplified)

For Windows without PowerShell 3 or for installation without a command-line, download `ez_setup.py` using your preferred web browser or other technique and "run" that file.
Unix (wget)
===============

Most Linux distributions come with wget.

Download `ez_setup.py` and run it using the target Python version. The script will download the appropriate version and install it for you::

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```

Note that you may need to invoke the command with superuser privileges to install to the system Python::

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | sudo python
```

Alternatively, Setuptools may be installed to a user-local path::

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python - --user
```

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.c.ssl.fastly.net` does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter similar problems using `wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see `Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>`_). If you happen to encounter them, install Setuptools as follows::

```bash
> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure
```

Unix including Mac OS X (curl)
================================

If your system has curl installed, follow the `wget` instructions but replace `wget` with `curl` and `-O` with `--o`. For example::

```bash
> curl https://bootstrap.pypa.io/ez_setup.py -o - | python
```

Advanced Installation
====================

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source
tarball from `Setuptools on PyPI <https://pypi.python.org/pypi/setuptools>`_
and run setup.py with any supported distutils and Setuptools options.
For example::

    setuptools-x.x$ python setup.py install --prefix=/opt/setuptools

Use ``--help`` to get a full options list, but we recommend consulting
the `EasyInstall manual`_ for detailed instructions, especially `the section
on custom installation locations`_.

.. _EasyInstall manual: https://pythonhosted.org/setuptools/EasyInstall
.. _the section on custom installation locations: https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations

Downloads
===========

All setuptools downloads can be found at `the project's home page in the Python
Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: https://pypi.python.org/pypi/setuptools

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Bitbucket repo`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _Bitbucket repo: https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev
.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

Uninstalling
============

On Windows, if Setuptools was installed using an `exe` or `msi`
installer, simply use the uninstall feature of "Add/Remove Programs" in the
Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python
version, delete all `setuptools*` and `distribute*` files and
directories from your system's `site-packages` directory
(and any other `sys.path` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute,
nothing further needs to be done. If you want to completely remove Setuptools,
you may also want to remove the 'easy_install' and 'easy_install-x.x' scripts
and associated executables installed to the Python scripts directory.

--------------------------------
Using Setuptools and EasyInstall
--------------------------------

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *tested* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: https://github.com/pypa/setuptools/issues
.. _The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html
.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

-----

Credits
-----

* The original design for the ```.egg``` format and the ```pkg_resources``` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ```pkg_resources```, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of ```easy_install```, and supplied the doctests for the command-line ```.exe``` wrappers on Windows.

* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for
Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

* Tarek Ziad is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation, and addressed many defects.

* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.. _files:

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Code of Conduct
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Everyone interacting in the setuptools project's codebases, issue trackers, chat rooms, and mailing lists is expected to follow the `PyPA Code of Conduct`_.


Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: System :: Archiving :: Packaging
Classifier: Topic :: System :: Systems Administration
Classifier: Topic :: Utilities

Found in path(s):
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20.7.0-1.tar.gz/setuptools-20.7.0/PKG-INFO
No license file was found, but licenses were detected in source scan.

# Permission is hereby granted, free of charge, to any person obtaining
# a copy of this software and associated documentation files (the
# "Software"), to deal in the Software without restriction, including
# without limitation the rights to use, copy, modify, merge, publish,
# distribute, sublicense, and/or sell copies of the Software, and to
# The above copyright notice and this permission notice shall be
# included in all copies or substantial portions of the Software.

Found in path(s):
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20-7-0-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/pyparsing.py
No license file was found, but licenses were detected in source scan.

``Setuptools`` is a collection of enhancements to the Python `distutils`
(for Python 2.6 and up) that allow developers to more easily build and
distribute Python packages, especially ones that have dependencies on other
packages.

Packages built and distributed using `setuptools` look to the user like
ordinary Python packages based on the `distutils` . Your users don't need to
install or even know about setuptools in order to use them, and you don't
have to include the entire setuptools package in your distributions. By
including just a single `bootstrap module` (a 12K .py file), your package will
automatically download and install `setuptools` if the user is building your
package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using
  the `EasyInstall tool <easy_install.html>`_,
  which supports downloading via HTTP, FTP, Subversion, and SourceForge, and
  automatically scans web pages linked from PyPI to find download links. (It's
  the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_
  - a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.
* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a `MANIFEST.in` file, and without having to force regeneration of the `MANIFEST` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`

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Developer's Guide
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Installing `setuptools`

Please follow the `EasyInstall Installation Instructions`_ to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations`_ if you are installing anywhere other than Python's `site-packages` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

.. _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first install a stable version, and then run:

```
    ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools:

```
from setuptools import setup, find_packages
setup(  
    name = "HelloWorld",  
    version = "0.1",  
    packages = find_packages(),  
)
```

As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.

Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference`_ section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke:

```
    python setup.py sdist
```

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your
project. And maybe your project will have grown by then to include a few
dependencies, and perhaps some data files and scripts:

```python
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],

    # Project uses reStructuredText, so ensure that the docutils get
    # installed or upgraded on the target machine
    install_requires = ['docutils>=0.3'],

    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        ': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    },

    # metadata for upload to PyPI
    author = "Me",
    author_email = "me@example.com",
    description = "This is an Example Package",
    license = "PSF",
    keywords = 'hello world example examples',
    url = "http://example.com/HelloWorld/",  # project home page, if any

    # could also include long_description, download_url, classifiers, etc.
)
```

In the sections that follow, we'll explain what most of these `setup()`
arguments do (except for the metadata ones), and the various ways you might use
them in your own project(s).

Specifying Your Project's Version
----------------------------------

Setuptools can work well with most versioning schemes; there are, however, a
few special things to watch out for, in order to ensure that setuptools and
EasyInstall can always tell what version of your package is newer than another
version. Knowing these things will also help you correctly specify what
versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release
or post-release tags. A release number is a series of digits punctuated by
dots, such as "2.4" or "0.5". Each series of digits is treated numerically, so releases "2.1" and "2.1.0" are different ways to spell the same release number, denoting the first subrelease of release 2. But "2.10" is the *tenth* subrelease of release 2, and so is a different and newer release from "2.1" or "2.1.0". Leading zeros within a series of digits are also ignored, so "2.01" is the same as "2.1", and different from "2.0.1".

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision "2.4" is *newer* than revision "2.4c1", which in turn is newer than "2.4b1" or "2.4a1". Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like "2.4-1" and "2.4pl3" are newer than "2.4", but are *older* than "2.4.1" (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include "alpha", "beta", "a", "c", "dev", and so on. You do not have to place a dot or dash before the prerelease tag if it’s immediately after a number, but it’s okay to do so if you prefer. Thus, "2.4c1" and "2.4.c1" and "2.4-c1" all represent release candidate 1 of version "2.4", and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter "c": "pre", "preview", and "rc". So, version "2.4rc1", "2.4pre1" and "2.4preview1" are all the exact same version as "2.4c1", and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash ("-" ). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version "2.4-r1263" might denote Subversion revision 1263 of a post-release patch of version "2.4". Or you might use "2.4-20051127" to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, "0.6a9.dev-r41475" could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that "dev" is a pre-release tag, so this version is a *lower* version number than "0.6a9", which would be the actual ninth alpha of release 0.6. But the "-r41475" is a post-release tag, so this version is *newer* than "0.6a9.dev".

For the most part, setuptools’ interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number
between them. Version `1.9adev` is the `adev` prerelease of `1.9`, *not* a development pre-release of `1.9a`. Use `.dev` instead, as in `1.9a.dev`, or separate the prerelease tags with a number, as in `1.9a0dev`. `1.9a.dev`, `1.9a0dev`, and even `1.9.a.dev` are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the `pkg_resources.parse_version()` function to compare different version numbers:

```python
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True
```

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`_
* `Managing "Continuous Releases" Using Subversion`_
* The `egg_info` command

New and Changed `setup()` Keywords
====================================

The following keyword arguments to `setup()` are added or changed by `setuptools`. All of them are optional; you do not have to supply them unless you need the associated `setuptools` feature.

`include_package_data`
If set to `True`, this tells `setuptools` to automatically include any data files it finds inside your package directories that are specified by your `MANIFEST.in` file. For more information, see the section below on `Including Data Files`.

`exclude_package_data`
A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back any excess files included by `include_package_data`. For a complete description and examples, see the section below on `Including Data Files`.

`package_data`
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on "Including Data Files". You do not need to use this option if you are using `include_package_data`, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the `bdist_egg` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on "Declaring Dependencies" for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See "Dynamic Discovery of Services and Plugins" for details and examples of the format of this argument. In addition, this keyword is used to support "Automatic Script Creation".

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on "Declaring Dependencies" for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to be present in order for the *setup script* to run. `setuptools` will attempt to obtain these (even going so far as to download them using "EasyInstall") before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in `setup_requires` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the .eggs directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to `install_requires` **and** `setup_requires`.)
``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies. 
These links will be used if needed to install packages specified by 
``setup_requires`` or ``tests_require``. They will also be written into 
the egg's metadata for use by tools like EasyInstall to use when installing 
an ``.egg`` file.

``namespace_packages``
A list of strings naming the project's "namespace packages". A namespace 
package is a package that may be split across multiple project 
distributions. For example, Zope 3's ``zope`` package is a namespace 
package, because subpackages like ``zope.interface`` and ``zope.publisher`` 
may be distributed separately. The egg runtime system can automatically 
merge such subpackages into a single parent package at runtime, as long 
as you declare them in each project that contains any subpackages of the 
namespace package, and as long as the namespace package's ``__init__.py`` 
does not contain any code other than a namespace declaration. See the 
section below on `Namespace Packages`_ for more information.

``test_suite``
A string naming a ``unittest.TestCase`` subclass (or a package or module 
containing one or more of them, or a method of such a subclass), or naming 
a function that can be called with no arguments and returns a 
``unittest.TestSuite``. If the named suite is a module, and the module 
has an ``additional_tests()`` function, it is called and the results are 
added to the tests to be run. If the named suite is a package, any 
submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test`_ command to run the 
specified test suite, e.g. via ``setup.py test``. See the section on the 
`test`_ command below for more details.

``tests_require``
If your project's tests need one or more additional packages besides those 
needed to install it, you can use this option to specify them. It should 
be a string or list of strings specifying what other distributions need to 
be present for the package's tests to run. When you run the `test` 
command, `setuptools` will attempt to obtain these (even going 
so far as to download them using `EasyInstall`). Note that these 
required projects will *not* be installed on the system where the tests 
are run, but only downloaded to the project's setup directory if they're 
not already installed locally.

.. _test_loader:

``test_loader``
If you would like to use a different way of finding tests to run than what
setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. Setuptools will pass only one test "name" in the 'names' argument; the value supplied for the "test_suite" argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a "test_suite" string.

The module name and class name must be separated by a `:`. The default value of this argument is "setuptools.command.test:ScanningLoader". If you want to use the default `unittest` behavior, you can specify "unittest:TestLoader" as your "test_loader" argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the "tests_require" option to ensure that the package containing the loader class is available when the "test" command is run.

``eager_resources``
A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem as a unit. Resources listed here should be '/'-separated paths, relative to the source root, so to list a resource "foo.png" in package "bar.baz", you would include the string "bar/baz/foo.png" in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`.

``use_2to3``
Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

``convert_2to3_doctests``
List of doctest source files that need to be converted with 2to3. See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.
Using `find_packages()`

For simple projects, it's usually easy enough to manually add packages to the `packages` argument of `setup()`. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what `setuptools.find_packages()` is for.

`find_packages()` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a `src` or `lib` directory as the root of their source tree, and those projects would of course use `src` or `lib` as the first argument to `find_packages()`. (And such projects also need something like `package_dir = {'': 'src'}` in their `setup()` arguments, but that's just a normal distutils thing.)

Anyway, `find_packages()` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an `__init__.py` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, `find_packages(exclude=['*.tests'])` will exclude all packages whose last name part is `tests`. Or, `find_packages(exclude=['*.tests', '*.tests.*'])` will also exclude any subpackages of packages named `tests`, but it still won't exclude a top-level `tests` package or the children thereof. In fact, if you really want no `tests` packages at all, you'll need something like this:

```python
find_packages(exclude=['*.tests', '*.tests.*', 'tests.*', 'tests'])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

Automatic Script Creation

==================================
Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the `--m` option only works for actual `.py` files that aren't installed in a package.

`setuptools` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an `.exe` file so that users don't have to change their `PATH` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called `foo` and `bar`, and a GUI script called `baz`, you might do something like this::

```python
setup(
    # other arguments here...

    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
            'bar = other_module:some_func',
        ],
        'gui_scripts': [
            'baz = my_package_gui:start_func',
        ]
    }
)
```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of `foo`, `bar`, and `baz` scripts will be installed that import `main_func` and `some_func` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to `sys.exit()`, so you can return an errorlevel or message to print to stderr.

On Windows, a set of `foo.exe`, `bar.exe`, and `baz.exe` launchers are created, alongside a set of `foo.py`, `bar.py`, and `baz.pyw` files. The `.exe` wrappers find and execute the right version of Python to run the `.py` or `.pyw` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to `sys.path` when the script is run. For more information on "extras", see the section below on 'Declaring Extras'. For more information on "entry points" in general, see the section below on 'Dynamic Discovery of Services and Plugins'.

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"Eggsecutable" Scripts
----------------------

Occasionally, there are situations where it's desirable to make an `.egg` file directly executable. You can do this by including an entry point such as the following:  

```python
setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ]
    }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls `main_func()` from `my_package.some_module`. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `~/bin/sh`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies
----------------------

``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version
specifiers. A version specifier is one of the operators "<", ">", "<=", ">=", "==" or ">!="", followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with "-".

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. ">1, >2" becomes">1"), and "<2, <3" becomes"<3"). "=" versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. ",=2,>=2" or ",==2,!=2") is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers:

```python
docutils >= 0.3

# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, 
==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST] >=0.5a4

setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the `install_requires` argument to `setup()`. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, `setup.py install`, or `setup.py develop`, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.

2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as
long as you either install the project or use "setup.py develop" to do
development work on it. (See "Development Mode" below for more details on
using "setup.py develop".)

Dependencies that aren't in PyPI
-----------------------------

If your project depends on packages that aren't registered in PyPI, you may
still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils `sdist` format,
- a single `.py` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to
`setup()`.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL.

In general, it's better to link to web pages, because it is usually less
complex to update a web page than to release a new version of your project.
You can also use a SourceForge `showfiles.php` link in the case where a
package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `.py` file, you
must include an `#egg=project-version` suffix to the URL, to give a project
name and version number. (Be sure to escape any dashes in the name or version
by replacing them with underscores.) EasyInstall will recognize this suffix
and automatically create a trivial `setup.py` to wrap the single `.py` file
as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version`
in order to identify for what package that checkout should be used. You can
append `@REV` to the URL's path (before the fragment) to specify a revision.
Additionally, you can also force the VCS being used by prepending the URL with
a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:
``vcs+proto://host/path@revision#egg=project-version``

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the ``requires`` and in the URL’s fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg`.

The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed:

```
setup(
    ...
    dependency_links = [
        "http://peak.telecommunity.com/snapshots/"
    ],
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

---

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires`.

For example, let's say that Project A offers optional PDF and reST support:

```
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': ['ReportLab>=1.2', 'RXP'],
        'reST': ['docutils>=0.3'],
    }
)
```
As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run:

```python
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    },
)
```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this:

```python
setup(
    name="Project-B",
    install_requires = ['Project-A[PDF]'],
    ...
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `extras_require` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above
builds in PDF support and no longer needs ReportLab, it could change its setup to this:

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ['docutils>=0.3'],
    }
)
```

so that Package B doesn't have to remove the ``[PDF]`` from its requirement specifier.

Including Data Files
====================

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the ``include_package_data`` keyword, e.g.:

```python
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils' `MANIFEST.in` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems`_ for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the `package_data` keyword, e.g.:

```python
from setuptools import setup, find_packages
setup(
    ...
)
package_data = {
    # If any package contains *.txt or *.rst files, include them:
    "": ["*.txt", "*.rst"],
    # And include any *.msg files found in the 'hello' package, too:
    'hello': ["*.msg"],
}
)

The `package_data` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this:

```
setup.py
src/
    mypkg/
        __init__.py
        mypkg.txt
    data/
        somefile.dat
        otherdata.dat
```

The setuptools setup file might look like this:

```
from setuptools import setup, find_packages
setup(
...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'': 'src'},       # tell distutils packages are under src

    package_data = {
        # If any package contains *.txt files, include them:
        "": ["*.txt"],
        # And include any *.dat files found in the 'data' subdirectory
        # of the 'mypkg' package, also:
        'mypkg': ["data/*.dat"],
    }
)
```

Notice that if you list patterns in `package_data` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the `mypkg.txt` file gets included even though it's not listed in the patterns for `mypkg`.

Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.
Sometimes, the `include_package_data` or `package_data` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this:

```python
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'': 'src'},  # tell distutils packages are under src
    include_package_data = True,    # include everything in source control

    # ...but exclude README.txt from all packages
    exclude_package_data = { '' : [ 'README.txt' ] },
)
```

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `'` will apply the given pattern(s) to all packages. However, any files that match these patterns will be excluded from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

```
include_package_data``
Accept all data files and directories matched by `MANIFEST.in`.

``package_data``
Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.

``exclude_package_data``
Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

__ http://docs.python.org/dist/node11.html
NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run `setup.py clean --all` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run `setup.py clean --all`.

Accessing Data Files at Runtime
-------------------------------

Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API` of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files
----------------------

The `distutils` normally install general "data files" to a platform-specific location (e.g. `/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`, by specifying a `Requirement` instead of a package name:

```python
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine;
This is a feature, not a bug. You can always include a script in your distribution that extracts and copies your documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that can be copied with the `shutil` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

**Automatic Resource Extraction**

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `eager_resources` argument to `setup()`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than `.dll`, `.so`, or `.dylib`, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the `native_libs.txt` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `eager_resources`, because they need to be present in the filesystem when he C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract *all* C extensions and `eager_resources` at the same time, whenever *any* C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in `eager_resources` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data...
files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of "eager_resources" being relevant to your project.

Extensible Applications and Frameworks
======================================

Dynamic Discovery of Services and Plugins
------------------------------------------

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called `blogtool.parsers`, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an `.`.rst`` file parser entry point in the `blogtool.parsers`` entry point group, for our hypothetical blogging tool:

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```python
setup(
    # ...
```
entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)

setup(
    # ...
    entry_points = ""
[blogtool.parsers]
   .rst = some.nested.module:SomeClass.some_classmethod [reST]
"
,
    extras_require = dict(reST = "Docutils>=0.3.5")
)

The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata
---------------------------------

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on `Creating distutils Extensions` for more details, especially the subsection on `Adding new EGG-INFO Files`.

"Development Mode"
--------------------

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild
and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setup tools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special `.egg-link` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.

If you have enabled the `use_2to3` flag, then of course the `.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using `setup.py develop --uninstall`, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the `develop` command; see the section on the `develop` command below for more details.
Note that you can also apply setuptools commands to non-setuptools projects, using commands like this:

```bash
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

### Distributing a `setuptools`-based project

Your users might not have `setuptools` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`, and put it in the same directory as your `setup.py` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

```python
import ez_setup
ez_setup.use_setuptools()
```

That's it. The `ez_setup` module will automatically download a matching version of `setuptools` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use `setup.py sdist upload` or `setup.py bdist_egg upload` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use `setup.py register` to do that. Or you can do it all in one step, e.g. `setup.py register sdist bdist_egg upload` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of `setuptools`, you can specify the exact version and base download URL as parameters to the `use_setuptools()` function. See the function's docstring for details.)

---

What Your Users Should Know
In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to ``site-packages``, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and ``easy_install``.

Network Access
If your project is using `ez_setup`, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations
You should inform your users that if they are installing your project to somewhere other than the main `site-packages` directory, they should first install setuptools using the instructions for `Custom Installation Locations`, before installing your project.

Your Project's Dependencies
If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the ``-f`` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use ``-f`` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers
Users and co-developers who are tracking your in-development code using
a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages
Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't `easy_install`! Distutils currently supports `bdist_rpm`, `bdist_wininst`, and `bdist_dumb` formats for system packaging. If a user has a locally-installed `bdist` packaging tool that internally uses the distutils `install` command, it should be able to work with `setuptools`. Some examples of "bdist" formats that this should work with include the `bdist_nsi` and `bdist_msi` formats for Windows.

However, packaging tools that build binary distributions by running `setup.py install` on the command line or as a subprocess will require modification to work with setuptools. They should use the `--single-version-externally-managed` option to the `install` command, combined with the standard `--root` or `--record` options. See the `install command` documentation below for more details. The `bdist_deb` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the `zip_safe` flag
-------------------------------
For maximum performance, Python packages are best installed as zip files. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, `setuptools` can install your project as a zipfile or a directory, and its default choice is determined by the project's `zip_safe` flag.
You can pass a True or False value for the `zip_safe` argument to the `setup()` function, or you can omit it. If you omit it, the `bdist_egg` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the `bdist_egg` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no `__file__` or `__path__` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses `pkg_resources` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)

However, if `bdist_egg` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok .` or `setup.py easy_install --always-unzip .` in your project directory, to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `True` or `False` for the `zip_safe` flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

Namespace Packages
------------------

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace
package, it means that the package has no meaningful contents in its
``__init__.py``, and that it is merely a container for modules and subpackages.

The `pkg_resources` runtime will then automatically ensure that the contents
of namespace packages that are spread over multiple eggs or directories are
combined into a single "virtual" package.

The `namespace_packages` argument to `setup()` lets you declare your
project's namespace packages, so that they will be included in your project's
metadata. The argument should list the namespace packages that the egg
participates in. For example, the ZopeInterface project might do this::

    setup(
        # ...
        namespace_packages = ['zope']
    )

because it contains a `zope.interface` package that lives in the `zope`
namespace package. Similarly, a project for a standalone `zope.publisher`
would also declare the `zope` namespace package. When these projects are
installed and used, Python will see them both as part of a "virtual" `zope`
package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's
`zope.app` package is a namespace package, and in the future PEAK's
`peak.util` package will be too.

Note, by the way, that your project's source tree must include the namespace
packages' `__init__.py` files (and the `__init__.py` of any parent
packages), in a normal Python package layout. These `__init__.py` files
*must* contain the line::

    __import__('pkg_resources').declare_namespace(__name__)

This code ensures that the namespace package machinery is operating and that
the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's
`__init__.py`. Even though it may appear to work during development, or when
projects are installed as `*.egg` files, it will not work when the projects
are installed using "system" packaging tools -- in such cases the
`__init__.py` files will not be installed, let alone executed.

You must include the `declare_namespace()` line in the `__init__.py` of
*every* project that has contents for the namespace package in question, in
order to ensure that the namespace will be declared regardless of which
project's copy of `__init__.py` is loaded first. If the first loaded
`__init__.py` doesn't declare it, it will never *be* declared, because no
other copies will ever be loaded!

TRANSITIONAL NOTE
~~~~~~~~~~~~~~~~~~

Setuptools automatically calls ``declare_namespace()`` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the ``pkg_resources`` runtime, and also the need for ``pkg_resources`` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing ``declare_namespace()`` calls in your ``__init__.py`` files, and you should correct these as soon as possible before the compatibility support is removed. Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases
------------------------------------------------

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, ``setuptools`` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (``--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (``--tag-svn-revision, -r``)
An 8-character representation of the build date (``--tag-date, -d``), as a postrelease tag

You can add these tags by adding ```egg_info``` and the desired options to the command line ahead of the ```sdist``` or ```bdist``` commands that you want to generate a daily build or snapshot for. See the section below on the ```egg_info``` command for more details.

(Also, before you release your project, be sure to see the section above on "Specifying Your Project's Version" for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like:

```
setup.py egg_info -rbDEV bdist_egg rotate -m .egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias` command, which would let each package define an alias like ```daily``` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run ```setup.py daily``` in each project directory. (And, you could also define sitewide or per-user default versions of the ```daily``` alias, so that projects that didn't define their own would use the appropriate defaults.)

Generating Source Distributions
---------------------------------

`setuptools` enhances the distutils' default algorithm for source file selection with pluggable endpoints for looking up files to include. If you are using a revision control system, and your source distributions only need to include files that you're tracking in revision control, use a corresponding plugin instead of writing a ```MANIFEST.in``` file. See the section below on "Adding Support for Revision Control Systems" for information on plugins.
If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a `MANIFEST.in` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the `MANIFEST.in` file.

But, be sure to ignore any part of the distutils documentation that deals with `MANIFEST` or how it's generated from `MANIFEST.in`; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's `.egg-info` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its `sdist` command omits nearly all of the options that the distutils' more complex `sdist` process requires. For all practical purposes, you'll probably use only the `--formats` option, if you use any option at all.

Making your package available for EasyInstall
---------------------------------------------

If you use the `register` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the `docs for the register command` for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

``url`` and ``download_url``
These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links.

``long_description``
EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an ``#egg=project`` or ``#egg=project-version`` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your ``url`` or ``download_url`` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either ``#egg=project`` or ``#egg=project-version`` added to the URL. You should replace `project` and `version` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the ``#egg=`` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ``#egg=projectname-dev``), so that users can do something like this::

```
   easy_install --editable projectname==dev
```

in order to check out the in-development version of `projectname`.

Managing "Continuous Releases" Using Subversion
---------------------------------------------------

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's `setup.cfg` file:

```
.. code-block:: ini

[egg_info]
tag_build = .dev
```
This will tell ``setuptools`` to generate package version numbers like ``1.0a1.dev-r1263``, which will be considered to be an *older* release than ``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg infrastructure (including ``setuptools``, ``pkg_resources`` and EasyInstall) will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the ``tag_build=.dev`` and always use the *last* release as a version number, so that your post-1.0 builds are labelled ``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an ``#egg=projectname-dev`` suffix. This allows users to request EasyInstall to download ``projectname==dev`` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your ``install_requires`` (or other requirements) to include ``==dev``, e.g.:

```
.. code-block:: python

    install_requires = ['OtherProject>=0.2a1.dev-r143,==dev']
```

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an ``#egg=OtherProject-dev`` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run ``setup.py develop`` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ``develop`` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run ``setup.py develop`` after every update in order to keep their checkout completely in sync.
Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from `setup.cfg`, so that you don't end up registering versions like `foobar-0.7a1.dev-r34832`. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to `setup.cfg` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

The first part of this command (`egg_info -RDb ""`) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your `setup.py`, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

    python setup.py alias -u release egg_info -RDb ""

You can then use it like this::

    python setup.py release sdist bdist_egg register upload

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the `egg_info` and `alias` commands for more ideas.

Distributing Extensions compiled with Pyrex
--------------------------------------------

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using `setuptools.Extension`, *not* `distutils.Extension`. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list `*.pyx` files as the source of your `Extension` objects in the setup script. `setuptools` will detect at build time whether Pyrex is installed or not. If it is, then `setuptools`
will use it. If not, then `setuptools` will silently change the `Extension` objects to refer to the `.c` counterparts of the `.pyx` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original `.pyx` files. This means that you will probably want to include current `.c` files in your revision control system, rebuilding them whenever you check changes in for the `.pyx` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

-----------------
Command Reference
-----------------

.. _alias:

``alias`` - Define shortcuts for commonly used commands

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different `egg_info` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using `setup.py alias aliasname expansion`, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various `egg_info` tagging options::

```
setup.py alias --global-config daily egg_info --tag-svn-revision --tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.::

```
setup.py daily bdist_egg # generate a daily-build .egg file
setup.py daily sdist # generate a daily-build source distro
setup.py daily sdist bdist_egg # generate both
```
The above commands are interpreted as if the word "daily" were replaced with "egg_info --tag-svn-revision --tag-build=development".

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the "bdist_egg" command so that it always runs the "rotate" command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on "bdist_egg" because the alias is only expanded once when used.

You can remove a defined alias with the "--remove" (or "-r") option, e.g.::

```
setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options`_ (listed under the `saveopts`_ command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the "alias" command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

```
"bdist_egg" - Create a Python Egg for the project
```

This command generates a Python Egg (".egg" file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to "sys.path" directly, or they can be placed in a directory on "sys.path" and then automatically discovered by the egg runtime system.

This command runs the "egg_info" command (if it hasn't already run) to update the project's metadata (".egg-info") directory. If you have added any extra
metadata files to the `'' .egg-info'' directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `''bdist_egg''` and you're done. But there are a few options that may be occasionally useful:

`''-dist-dir=DIR, -d DIR''`
Set the directory where the `'' .egg''` file will be placed. If you don't supply this, then the `''--dist-dir''` setting of the `''bdist''` command will be used, which is usually a directory named `''dist''` in the project directory.

`''--plat-name=PLATFORM, -p PLATFORM''`
Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

`''--exclude-source-files''`
Don't include any modules `'' .py''` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `'' .py''` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `'' .py''` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `''traceback''` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `''bdist''` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

`''--keep-temp, -k''`
Keep the contents of the `''--bdist-dir''` tree around after creating the `'' .egg''` file.

`''--bdist-dir=DIR, -b DIR''`
Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

``--skip-build``

Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:

``develop`` - Deploy the project source in "Development Mode"

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The ``develop`` command works by creating an `.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts`
(for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

``--uninstall, -u``
Un-deploy the current project. You may use the ``--install-dir`` or ``-d`` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `--x`) option when you run `develop` to deploy the project.

``--multi-version, -m``
"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or EasyInstall. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `-d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

``--install-dir=DIR, -d DIR``
Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the `site-packages` directory, but if you are using distutils configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

``--script-dir=DIR, -s DIR``
Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an `--install-dir` (via command line or config file), then this option
defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

``--exclude-scripts, -x``
Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they are already present in another directory on ``sys.path``. By default, if a requirement can be met using a distribution that is already available in a directory on ``sys.path``., it will not be copied to the staging area.

``--egg-path=DIR``
Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the ``develop`` command also accepts all of the same options accepted by ``easy_install``. If you've configured any `easy_install` settings in your ``setup.cfg`` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `[develop]` section or on the command line.

``easy_install`` - Find and install packages
============================================
This command runs the `EasyInstall tool`<http://python.org/easy_install.html>_ for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your `setup.cfg` or other distutils config files.
``egg_info`` - Create egg metadata and set build tags
====================================================================

This command performs two operations: it updates a project's ``.egg-info``
metadata directory (used by the ``bdist_egg``, ``develop``, and ``test``
commands), and it allows you to temporarily change a project's version string,
to support "daily builds" or "snapshot" releases. It is run automatically by
the ``sdist``, ``bdist_egg``, ``develop``, ``register``, and ``test`` commands
in order to update the project's metadata, but you can also specify it
explicitly in order to temporarily change the project's version string while
executing other commands. (It also generates the``.egg-info/SOURCES.txt``
manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by ``setuptools`` and
required by ``pkg_resources``, this command can be extended to write other
metadata files as well, by defining entry points in the ``egg_info.writers``
group. See the section on `Adding new EGG-INFO Files`_ below for more details.
Note that using additional metadata writers may require you to include a
``setup_requires`` argument to ``setup()`` in order to ensure that the desired
writers are available on ``sys.path``.

Release Tagging Options
-----------------------

The following options can be used to modify the project's version string for
all remaining commands on the setup command line. The options are processed
in the order shown, so if you use more than one, the requested tags will be
added in the following order:

``--tag-build=NAME, -b NAME``

Append NAME to the project's version string. Due to the way setuptools
processes "pre-release" version suffixes beginning with the letters "a"
through "e" (like "alpha", "beta", and "candidate"), you will usually want
to use a tag like ".build" or ".dev", as this will cause the version number
to be considered *lower* than the project's default version. (If you
want to make the version number *higher* than the default version, you can
always leave off --tag-build and then use one or both of the following
options.)

If you have a default build tag set in your ``setup.cfg``, you can suppress
it on the command line using ``--tag-build=`` as an argument
to the ``egg_info`` command.
If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form `-rNNNN` to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a `-rNNNN` string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with `-r` and a number, then `-r0` is used.

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

Add a date stamp of the form `-YYYYMMDD` (e.g. `-20050528`) to the project's version number.

Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

```
--egg-base=SOURCEDIR, -e SOURCEDIR
```

Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not
necessarily the same as your project directory; some projects use a `src` or `lib` subdirectory as the source root. You should not normally need to specify this directory, as it is normally determined from the `package_dir` argument to the `setup()` function, if any. If there is no `package_dir` set, this option defaults to the current directory.

``egg_info`` Examples
----------------------

Creating a dated "nightly build" snapshot egg::

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default tags are specified in `setup.cfg`::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

(Notice that `egg_info` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run ``easy_install`` or old-style installation
============================================================

The setuptools `install` command is basically a shortcut to run the `easy_install` command on the current project. However, for convenience in creating "system packages" of setuptools-based projects, you can also use this option:

``--single-version-externally-managed``

This boolean option tells the `install` command to perform an "old style" installation, with the addition of an `.egg-info` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the `--root` or `--record` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when `install` is invoked by another distutils command, so that commands like `bdist_wininst` and `bdist_rpm` will create system packages of eggs. It is also automatically in effect if you specify the `--root` option.

``install_egg_info`` - Install an `.egg-info` directory in `site-packages`
Setuptools runs this command as part of `install` operations that use the `--single-version-externally-managed` options. You should not invoke it directly; it is documented here for completeness and so that distutils extensions such as system package builders can make use of it. This command has only one option:

```
--install-dir=DIR, -d DIR
```

The parent directory where the `.egg-info` directory will be placed. Defaults to the same as the `--install-dir` option specified for the `install_lib` command, which is usually the system `site-packages` directory.

This command assumes that the `egg_info` command has been given valid options via the command line or `setup.cfg`, as it will invoke the `egg_info` command and use its options to locate the project's source `.egg-info` directory.

.. _rotate:

```
rotate
```

- Delete outdated distribution files

As you develop new versions of your project, your distribution (`dist`) directory will gradually fill up with older source and/or binary distribution files. The `rotate` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

```
--match=PATTERNLIST, -m PATTERNLIST
```

Comma-separated list of glob patterns to match. This option is *required*. The project name and `-*` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like `*.zip` or `*.egg` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

```
--keep=COUNT, -k COUNT
```

Number of matching distributions to keep. For each group of files identified by a pattern specified with the `--match` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

```
--dist-dir=DIR, -d DIR
```

Directory where the distributions are. This defaults to the value of the `bdist` command's `--dist-dir` option, which will usually be the
**Example 1**: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::<

    setup.py rotate --match=.tar.gz --keep=3

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::<

    setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1

.. _saveopts:

``saveopts`` - Save used options to a configuration file

Finding and editing ``distutils`` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the ``saveopts`` command. Just add it to the command line to save the options you used. For example, this command builds the project using the ``mingw32`` C compiler, then saves the --compiler setting as the default for future builds (even those run implicitly by the ``install`` command)::

    setup.py build --compiler=mingw32 saveopts

The ``saveopts`` command saves all options for every command specified on the command line to the project's local ``setup.cfg`` file, unless you use one of the `configuration file options`_ to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration::<

    setup.py build --compiler=mingw32 saveopts -g

Note that it doesn't matter where you place the ``saveopts`` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example::<

    setup.py saveopts -g build --compiler=mingw32

Note, however, that all of the commands specified are always run, regardless of where ``saveopts`` is placed on the command line.

Configuration File Options
--------------------------

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Normally, settings such as options and aliases are saved to the project's local `setup.cfg` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``

Save settings to the global `distutils.cfg` file inside the `distutils` package directory. You must have write access to that directory to use this option. You also can't combine this option with `-u` or `-f`.

``--user-config, -u``

Save settings to the current user's `~/.pydistutils.cfg` (POSIX) or `$HOME/pydistutils.cfg` (Windows) file. You can't combine this option with `-g` or `-f`.

``--filename=FILENAME, -f FILENAME``

Save settings to the specified configuration file to use. You can't combine this option with `-g` or `-u`. Note that if you specify a non-standard filename, the `distutils` and `setuptools` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other `setuptools` commands that modify configuration files, such as the `alias` and `setopt` commands.

.. _setopt:

``setopt`` - Set a distutils or setuptools option in a config file

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

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to `mingw32` (using long option names):

    setup.py setopt --command=build --option=compiler --set-value=mingw32

**Example 2**. Remove any setting for the distutils default package installation directory (short option names):

    setup.py setopt -c install -o install_lib -r

Options for the `setopt` command:
``--command=COMMAND, -c COMMAND``
Command to set the option for. This option is required.

``--option=OPTION, -o OPTION``
The name of the option to set. This option is required.

``--set-value=VALUE, -s VALUE``
The value to set the option to. Not needed if ``--remove`` is set.

``--remove, -r``
Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options`_ (listed under the `saveopts`_ command, above) to determine which distutils configuration file the option will be added to (or removed from).

.. _test:

``test`` - Build package and run a unittest suite
==================================================================

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the ``develop`` command. The ``test`` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on ``sys.path``, after first running ``build_ext -i`` and ``egg_info`` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a `unittest` test suite by either a function, a `TestCase` class or method, or a module or package containing `TestCase` classes. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the result (which must be a `unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `test_loader`, the rules for processing the chosen `test_suite` may differ; see the `test_loader` documentation for more details.)

Note that many test systems including `doctest` support wrapping their non-`unittest` tests in `TestSuite` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.
By default, tests will be run in the "verbose" mode of the ``unittest`` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the ``--q`` or ``--quiet`` option, either as a global option to the setup script (e.g. ``setup.py -q test``) or as an option for the ``test`` command itself (e.g. ``setup.py test -q``). There is one other option available:

``--test-suite=NAME, -s NAME``

Specify the test suite (or module, class, or method) to be run (e.g. ``some_module.test_suite``). The default for this option can be set by giving a ``test_suite`` argument to the ``setup()`` function, e.g.:

```python
setup(
    # ...
    test_suite = "my_package.tests.test_all"
)
```

If you did not set a ``test_suite`` in your ``setup()`` call, and do not provide a ``--test-suite`` option, an error will occur.

.. _upload:

``upload`` - Upload source and/or egg distributions to PyPI

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

The ``upload`` command is implemented and documented <https://docs.python.org/3.1/distutils/uploading.html> in distutils.

Setuptools augments the ``upload`` command with support for `keyring <https://pypi.python.org/pypi/keyring>`_, allowing the password to be stored in a secure location and not in plaintext in the .pypirc file. To use keyring, first install keyring and set the password for the relevant repository, e.g.:

```bash
python -m keyring set <repository> <username>
Password for '<username>' in '<repository>': ********
```

Then, in .pypirc, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the keyring.

New in 20.1: Added keyring support.

.. _upload_docs:
``upload_docs`` - Upload package documentation to PyPI

PyPI now supports uploading project documentation to the dedicated URL https://pythonhosted.org/<project>/.

The ``upload_docs`` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils `register` command -- just like the ``upload`` command.

Assuming there is an ``Example`` project with documentation in the subdirectory ``docs``, e.g.::

    Example/
    |-- example.py
    |-- setup.cfg
    |-- setup.py
    |-- docs
    |   |-- build
    |   |   |-- html
    |   |   |   |-- index.html
    |   |   |-- tips_tricks.html
    |   |-- conf.py
    |   |-- index.txt
    |   `-- tips_tricks.txt

You can simply pass the documentation directory path to the ``upload_docs`` command::

    python setup.py upload_docs --upload-dir=docs/build/html

If no ``--upload-dir`` is given, ``upload_docs`` will attempt to run the `build_sphinx` command to generate uploadable documentation.

For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_ must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful defaults in the `setup.cfg` of your Python project, e.g.:

.. code-block:: ini

    [upload_docs]
    upload-dir = docs/build/html

The ``upload_docs`` command has the following options:
``--upload-dir``
The directory to be uploaded to the repository.

``--show-response``
Display the full response text from server; this is useful for debugging
PyPI problems.

``--repository=URL, -r URL``
The URL of the repository to upload to. Defaults to
https://pypi.python.org/pypi (i.e., the main PyPI installation).

--------------------------------
Extending and Reusing Setuptools
--------------------------------

Creating `distutils` Extensions
===============================

It can be hard to add new commands or setup arguments to the distutils. But
the `setuptools` package makes it a bit easier, by allowing you to distribute
a distutils extension as a separate project, and then have projects that need
the extension just refer to it in their `setup_requires` argument.

With `setuptools`, your distutils extension projects can hook in new
commands and `setup()` arguments just by defining "entry points". These
are mappings from command or argument names to a specification of where to
import a handler from. (See the section on `Dynamic Discovery of Services and
Plugins` above for some more background on entry points.)

Adding Commands
---------------

You can add new `setup` commands by defining entry points in the
`distutils.commands` group. For example, if you wanted to add a `foo` command, you might add something like this to your distutils extension
project's setup script:

```
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)``
(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running ”install” or ”develop” with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the ”--command-packages” option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the distutils to search for entry points in the active distributions on `sys.path`. In fact, this is how setuptools’ own commands are installed: the setuptools project’s setup script defines entry points for them!

Adding `setup()` Arguments
--------------------------

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your distutils extension project’s setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it’s supplied. The `Distribution` object will have the initial value of the attribute set to `None`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here’s an example validation function::

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr, value)
        )
```

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Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

Adding new EGG-INFO Files
-------------------------

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument `foo_bar`, which is a list of lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any project that uses the argument:

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)
```
This simple example makes use of two utility functions defined by setuptools for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here’s what the writer utility looks like:

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '\n'.join(value)+'\n'
        cmd.write_or_delete_file(argname, filename, value)
```

As you can see, ``egg_info.writers`` entry points must be a function taking three arguments: a ``egg_info`` command instance, the basename of the file to write (e.g. "foo_bar.txt"), and the actual full filename that should be written to.

In general, writer functions should honor the command object’s ``dry_run`` setting when writing files, and use the ``distutils.log`` object to do any console output. The easiest way to conform to this requirement is to use the ``cmd`` object’s ``write_file()``, ``delete_file()`` and ``write_or_delete_file()`` methods exclusively for your file operations. See those methods’ docstrings for more details.

**Adding Support for Revision Control Systems**

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked by another revision control system, you can do so by adding an entry point to the `setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```python
.. code-block:: python
```
def find_files_for_foober(dirname):
    # loop to yield paths that start with `dirname`

And you would register it in a setup script using something like this:

    entry_points = {
        "setuptools.file_finders": [
            "foobar = my_foober_module:find_files_for_foober"
        ]
    }

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in "setup_requires". When you create a source distribution with the "sdist" command, setuptools automatically records what files were found in the "SOURCES.txt" file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named "some/dir" under the current directory should NOT be rendered as "./some/dir" or "/somewhere/some/dir", but *always* as simply "some/dir"

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *may*, however, use "distutils.log.warn()" to inform the user of the missing program(s).

Subclassing "Command"

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

Sorry, this section isn't written yet, and neither is a lot of what's below this point.

XXX
Reusing ``setuptools`` Code

``ez_setup``
--------

XXX

``setuptools.archive_util``
----------------------------

XXX

``setuptools.sandbox``
------------

XXX

``setuptools.package_index``
----------------------------

XXX

Mailing List and Bug Tracker

Please use the `distutils-sig mailing list` for questions and discussion about setuptools, and the `setuptools bug tracker` ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. `distutils-sig mailing list <http://mail.python.org/pipermail/distutils-sig>`_
.. `setuptools bug tracker <https://github.com/pypa/setuptools>`_

Found in path(s):
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20-7-0-1-tar-gz/setuptools-20.7.0/docs/setuptools.txt

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* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20-7-0-1-tar-gz/setuptools-
  20.7.0/pkg_resources/_vendor/six.py

1.949 pygments 2.6.1

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1.950 iconv 2.23

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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/SecurityActions.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/Pair.java
No license file was found, but licenses were detected in source scan.

/*
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*/

Found in path(s):
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
1.960 libpcap 1.7.4 2ubuntu0.1

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1.961 python-tz 2014.10~dfsg1-0ubuntu2

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1.962 open-vm-tools 10.2.0 3~ubuntu0.16.04.1
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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
SOpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp /
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>>> unicode-5.0

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

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1.964 glib 2.48.2 0ubuntu1
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-jar/io/netty/internal/tcnative/SSLTask.java

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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.30.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=macosx;;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_232

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* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-jar/io/netty/internal/tcnative/Buffer.java
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jpg "Clone me," says Dolly sheepishly.
```

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5. [6] Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnittz@unipress.com> Unixware1 port
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51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
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*
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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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1.973 vixie-cron 3.0pl1-128ubuntu2

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$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

    crontab -u uucp -r /usr/lib/uucp/crontab.src
    crontab -u news -r /usr/lib/news/crontab.src
    crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no `&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

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$Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
```

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* @(#)bitstring.h 5.2 (Berkeley) 4/4/90
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* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
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* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/Makefile
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* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/ws_local/PERMITS_SQL/100941870_1588613806.49/0/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/ws_local/PERMITS_SQL/100941870_1588613806.49/0/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/ws_local/PERMITS_SQL/100941870_1588613806.49/0/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/ws_local/PERMITS_SQL/100941870_1588613806.49/0/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/ws_local/PERMITS_SQL/100941870_1588613806.49/0/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/ws_local/PERMITS_SQL/100941870_1588613806.49/0/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
* /opt/ws_local/PERMITS_SQL/100941870_1588613806.49/0/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/ws_local/PERMITS_SQL/100941870_1588613806.49/0/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/ws_local/PERMITS_SQL/100941870_1588613806.49/0/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c

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```
$Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
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@(#)bitstring.35.1 (Berkeley) 12/13/89
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8x13B.bdf 8x13Bc.bdf 8x13.bdf 8x13-IL2.bdf 8x13O.bdf 
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== 8x16-IL2.bdf 8x16c.bdf

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legacy12c.bdf, legacy12d.bdf, legacy14a.bdf, legacy14b.bdf, legacy14c.bdf, legacy14d.bdf, legacy14e.bdf, legacy14f.bdf, legacy14g.bdf, legacy14h.bdf, legacy14i.bdf, legacy14j.bdf, legacy14k.bdf, legacy14l.bdf, legacy14m.bdf, legacy14n.bdf, legacy14o.bdf, legacy14p.bdf, legacy14q.bdf, legacy14r.bdf, legacy14s.bdf, legacy14t.bdf, legacy14u.bdf, legacy14v.bdf, legacy14w.bdf, legacy14x.bdf, legacy14y.bdf, legacy14z.bdf, legacy16a.bdf, legacy16b.bdf, legacy16c.bdf, legacy16d.bdf, legacy16e.bdf, legacy16f.bdf, legacy16g.bdf, legacy16h.bdf, legacy16i.bdf, legacy16j.bdf, legacy16k.bdf, legacy16l.bdf, legacy16m.bdf, legacy19a.bdf, legacy19b.bdf, legacy19c.bdf, legacy19d.bdf, legacy19e.bdf, legacy19f.bdf, legacy19g.bdf, legacy19h.bdf, legacy19i.bdf, legacy19j.bdf, legacy19k.bdf, legacy19l.bdf, legacy19m.bdf, legacy19n.bdf, legacy19o.bdf, legacy19p.bdf, legacy19q.bdf, legacy19r.bdf, legacy19s.bdf, legacy19t.bdf, legacy19u.bdf, legacy19v.bdf, legacy19w.bdf, legacy19x.bdf, legacy19y.bdf, legacy19z.bdf

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1.992 coreutils 8.5

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1.1002 icu 57
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```makefile
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

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

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

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

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

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

## Dependency rules

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

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

## End FreeBSD-specific setup

1.1003 jackson-annotations 2.10.0

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1.1004 libxcursor 1.1.14-1ubuntu0.16.04.2

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1.1005 importlib-metadata 2.0.0

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1.1006 libdbi 0.9.0 4
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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.

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of 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 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
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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,
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
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Finally, any free program is threatened constantly by software
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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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"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
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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.)

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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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4. You may copy and distribute the Library (or a portion or
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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
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
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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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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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1.1009 apt 1.2.29ubuntu0.1

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1.1013 python-setuptools 49.6.0

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### 1.1015 xml-apis 2.0.2

#### 1.1015.1 Available under license:

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/**
 * Base class for deriving an XML filter.
 *
 * <blockquote>
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 * </blockquote>
 *
 * This class is designed to sit between an org.xml.sax.XMLReader
 * and the client application's event handlers. By default, it
 * does nothing but pass requests up to the reader and events
 * on to the handlers unmodified, but subclasses can override
 * specific methods to modify the event stream or the configuration
 * requests as they pass through.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.XMLFilter
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
 */
```

Found in path(s):
```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLFilterImpl.java
```

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* Basic interface for SAX error handlers.
* <blockquote>
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* If a SAX application needs to implement customized error
* handling, it must implement this interface and then register an
* instance with the XML reader using the
* {@link org.xml.sax.XMLReader#setErrorHandler setErrorHandler}
* method. The parser will then report all errors and warnings
* through this interface.</p>

* WARNING: If an application does not register an ErrorHandler, XML parsing errors will go unreported and bizarre behaviour may result.</p>

* For XML processing errors, a SAX driver must use this interface
* instead of throwing an exception: it is up to the application
* to decide whether to throw an exception for different types of
* errors and warnings. Note, however, that there is no requirement that
* the parser continue to provide useful information after a call to
* {@link #fatalError fatalError} (in other words, a SAX driver class
* could catch an exception and report a fatalError).</p>

*/

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.Parser#setErrorHandler
@see org.xml.sax.SAXParseException
*/

// NO WARRANTY! This class is in the public domain.
/**
* Interface for a list of XML attributes.
* <blockquote>
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*
* three different ways:
  *
  * <ol>
  * <li>by attribute index;</li>
  * <li>by Namespace-qualified name; or</li>
  * <li>by qualified (prefixed) name.</li>
  * </ol>

* The list will not contain attributes that were declared
  * #IMPLIED but not specified in the start tag. It will also not
  * contain attributes used as Namespace declarations (xmlns*) unless
  * the <code>http://xml.org/sax/features/namespace-prefixes</code>
  * feature is set to <var>true</var> (it is <var>false</var>) by
  * default).</p>

* If the namespace-prefixes feature (see above) is <var>false</var>,
  * access by qualified name may not be available; if the
  * <code>http://xml.org/sax/features/namespaces</code>
  * feature is <var>false</var>, access by Namespace-qualified names
  * may not be available.</p>

* This interface replaces the now-deprecated SAX1 {<link
  * org.xml.sax.AttributeList AttributeList} interface, which does not
  * contain Namespace support. In addition to Namespace support, it
  * adds the <var>getIndex</var> methods (below).</p>

* The order of attributes in the list is unspecified, and will
  * vary from implementation to implementation.</p>

* Since SAX 2.0
* @author David Megginson,
  * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.helpers.AttributeListImpl
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Attributes.java
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/**
* Default implementation for AttributeList.
* *
* <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
AttributeList implements the deprecated SAX1 \[\@link org.xml.sax.AttributeList\ AttributeList\] interface, and has been replaced by the new SAX2 \[\@link org.xml.sax.helpers.AttributesImpl\ AttributesImpl\] interface. 

This class provides a convenience implementation of the SAX \[\@link org.xml.sax.AttributeList\ AttributeList\] interface. This implementation is useful both for SAX parser writers, who can use it to provide attributes to the application, and for SAX application writers, who can use it to create a persistent copy of an element's attribute specifications:

```java
private AttributeList myatts;

public void startElement(String name, AttributeList atts)
{
    // create a persistent copy of the attribute list
    // for use outside this method
    myatts = new AttributeListImpl(atts);
    [...] 
}
```

Please note that SAX parsers are not required to use this class to provide an implementation of AttributeList; it is supplied only as an optional convenience. In particular, parser writers are encouraged to invent more efficient implementations.

@deprecated This class implements a deprecated interface, \[\@link org.xml.sax.AttributeList\ AttributeList\]; that interface has been replaced by \[\@link org.xml.sax.Attributes\ Attributes\], which is implemented in the \[\@link org.xml.sax.helpers.AttributesImpl\ AttributesImpl\] helper class.

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.AttributeList
@see org.xml.sax.DocumentHandler#startElement

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/AttributeListImpl.java
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/**
 * Interface for an XML filter.
 *
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 * </blockquote>
 *
 * An XML filter is like an XML reader, except that it obtains its
 * events from another XML reader rather than a primary source like
 * an XML document or database. Filters can modify a stream of
 * events as they pass on to the final application.
 *
 * The XMLFilterImpl helper class provides a convenient base
 * for creating SAX2 filters, by passing on all EntityResolver, DTDHandler, ContentHandler and ErrorHandler
 * events automatically.
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.helpers.XMLFilterImpl
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLFilter.java

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/**
 * Interface for associating a SAX event with a document location.
 *
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 * </blockquote>
 *
 * If a SAX parser provides location information to the SAX
 * application, it does so by implementing this interface and then
 * passing an instance to the application using the content
 * handler's ContentHandler#setDocumentLocator method. The application can use the
 * object to obtain the location of any other content handler event
 * in the XML source document.
 */
Note that the results returned by the object will be valid only during the scope of each content handler method: the application will receive unpredictable results if it attempts to use the locator at any other time.

SAX parsers are not required to supply a locator, but they are very strongly encouraged to do so. If the parser supplies a locator, it must do so before reporting any other document events. If no locator has been set by the time the application receives the \{ @link org.xml.sax.ContentHandler#startDocument startDocument \} event, the application should assume that a locator is not available.

@since SAX 1.0
@see org.xml.sax.ContentHandler#setDocumentLocator

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If a SAX application needs information about notations and unparsed entities, then the application implements this interface and registers an instance with the SAX parser using the parser's setDTDHandler method. The parser uses the instance to report notation and unparsed entity declarations to the application.

Note that this interface includes only those DTD events that the XML recommendation requires processors to report:

The SAX parser may report these events in any order, regardless of the order in which the notations and unparsed entities were declared; however, all DTD events must be reported after the document handler's startDocument event, and before the first...
* startElement event.</p>
 *
* <p>It is up to the application to store the information for
* future use (perhaps in a hash table or object tree).
* If the application encounters attributes of type "NOTATION",
* "ENTITY", or "ENTITIES", it can use the information that it
* obtained through this interface to find the entity and/or
* notation corresponding with the attribute value.</p>
 *
* @since SAX 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setDTDHandler
* @see org.xml.sax.HandlerBase
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/DTDHandler.java
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This class implements the default behaviour for four SAX1 interfaces: EntityResolver, DTDHandler, DocumentHandler, and ErrorHandler. It is now obsolete, but is included in SAX2 to support legacy SAX1 applications. SAX2 applications should use the [@link org.xml.sax.helpers.DefaultHandler DefaultHandler] class instead.
* Application writers can extend this class when they need to
* implement only part of an interface; parser writers can
* instantiate this class to provide default handlers when the
* application has not supplied its own.</p>
* 
* Note that the use of this class is optional.</p>
* 
* Deprecated This class works with the deprecated
* [DocumentHandler](https://www.w3.org/Consortium/Legal/) interface. It has been replaced by the SAX2
* DefaultHandler class.
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see EntityResolver
* @see DTDHandler
* @see DocumentHandler
* @see ErrorHandler
*/

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMEntityResolver.java
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*/
/**
* <strong>DOM Level 3 WD Experimental:</strong>
* The DOM Level 3 specification is at the stage
* of Working Draft, which represents work in
* progress and thus may be updated, replaced,
* or obsoleted by other documents at any time. <strong>DOM Level 3 WD Experimental:</strong>
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* of Working Draft, which represents work in
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* of Working Draft, which represents work in
* progress and thus may be updated, replaced,
* or obsoleted by other documents at any time.
* <p>
* <code>XPathEvaluator</code>, which will provide evaluation of XPath 1.0
* expressions with no specialized extension functions or variables. It is
* expected that the <code>XPathEvaluator</code> interface will be
* implemented on the same object which implements the <code>Document</code>
* interface in an implementation which supports the XPath DOM module.
* <code>XPathEvaluator</code> implementations may be available from other
* sources that may provide support for special extension functions or
* variables which are not defined in this specification. The methods of
* <code>XPathExpression</code> should be named with more-XPath- specific names because
* the interface will often be implemented by the same object which
* implements document.No change. The point of interfaces is to localize the
* implementing namespace. This would make the method names unnecessarily long and complex even though there are no conflicts in the interface itself. The new core method getInterface is designed for discovering interfaces of additional modules that may not be directly implemented on the objects to which they are attached. This could be used to implement XPath on a separate object. The user only refers to the separate interfaces and not the proprietary aggregate implementation. Should entity refs be supported so that queries can be made on them? No change. We will not do this now. They are not part of the XPath data model. Note that they may be present in the hierarchy of returned nodes, but may not directly be requested or returned in the node set. What does createResult create when one wants to reuse the XPath? It is not useful. Removed method. Should ordering be a separate flag, or a type of result that can be requested. As a type of result, it can be better optimized in implementations. It makes sense as a type of result. Changed. Removed method. Implementing XPathEvaluator on Document can be a problem due to conflicts in the names of the methods. The working group finds no better solution. GetInterface in Level 3 permits the object to be implemented separately. We should be committed to this. We will leave this issue open to see if we get more feedback on it. How does this interface adapt to XPath 2.0 and other query languages? No change. This interface is not intended to adapt to XPath 2.0 or other languages. The models of these are likely to be incompatible enough to require new APIs. For alternate implementations that can use this APL, it can be obtained from different sources. Support for custom variables and functions would be very useful. No change. It is possible for an implementation to supply alternative sources of an XPathEvaluator that can be customized with a custom variable and function context. We do not specify how this is accomplished. It is too complex to address in this version of the XPath DOM.


*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathEvaluator.java
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/**
 * Interface for an element's attribute specifications.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This is the original SAX1 interface for reporting an element's
* attributes. Unlike the new \{@link org.xml.sax.Attributes Attributes\} interface, it does not support Namespace-related information.</p>
*
* <p>When an attribute list is supplied as part of a
* \{@link org.xml.sax.DocumentHandler#startElement startElement\} event, the list will return valid results only during the
* scope of the event; once the event handler returns control
* to the parser, the attribute list is invalid. To save a
* persistent copy of the attribute list, use the SAX1
* \{@link org.xml.sax.helpers.AttributeListImpl AttributeListImpl\} helper class.</p>
*
* <p>An attribute list includes only attributes that have been
* specified or defaulted: #IMPLIED attributes will not be included.</p>
*
* <p>There are two ways for the SAX application to obtain information
* from the AttributeList. First, it can iterate through the entire
* list:</p>
*
* <pre>
* public void startElement (String name, AttributeList atts) {
*   for (int i = 0; i < atts.getLength(); i++) {
*     String name = atts.getName(i);
*     String type = atts.getType(i);
*     String value = atts.getValue(i);
*     [...]  
*   }
* }
* </pre>
*
* <p>(Note that the result of getLength() will be zero if there
* are no attributes.)</p>
*
* <p>As an alternative, the application can request the value or
* type of specific attributes:</p>
*
* <pre>
* public void startElement (String name, AttributeList atts) {
*   String identifier = atts.getValue("id");
*   String label = atts.getValue("label");
*   [...]  
* }
* </pre>
*
* @deprecated This interface has been replaced by the SAX2
* \{@link org.xml.sax.Attributes Attributes\} interface, which includes Namespace support.
* @since SAX 1.0
Receive notification of general document events.

This was the main event-handling interface for SAX1; in SAX2, it has been replaced by ContentHandler, which provides Namespace support and reporting of skipped entities. This interface is included in SAX2 only to support legacy SAX1 applications.

The order of events in this interface is very important, and mirrors the order of information in the document itself. For example, all of an element's content (character data, processing instructions, and/or subelements) will appear, in order, between the startElement event and the corresponding endElement event.

Application writers who do not want to implement the entire interface can derive a class from HandlerBase, which implements the default functionality; parser writers can instantiate HandlerBase to obtain a default handler. The application can find the location of any document event using the Locator interface supplied by the Parser through the setDocumentLocator method.

This interface has been replaced by the SAX2 interface, which includes Namespace support.

since SAX 1.0

@author David Megginson,

<a href="mailto:sax@megginson.com">sax@megginson.com</a>

@version 2.0

@see org.xml.sax.Parser#setDocumentHandler

@see org.xml.sax.Locator

@see org.xml.sax.HandlerBase
// NO WARRANTY! This class is in the Public Domain.
/**
 * Factory for creating an XML reader.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * This class contains static methods for creating an XML reader
 * from an explicit class name, or based on runtime defaults:
 *
 * try {
 *   XMLReader myReader = XMLReaderFactory.createXMLReader();
 * } catch (SAXException e) {
 *   System.err.println(e.getMessage());
 * }
 *
 * <p>Note to Distributions bundled with parsers:
 * You should modify the implementation of the no-arguments
 * createXMLReader to handle cases where the external
 * configuration mechanisms aren't set up. That method should do its
 * best to return a parser when one is in the class path, even when
 * nothing bound its class name to <code>org.xml.sax.driver</code> so
 * those configuration mechanisms would see it.</p>
 *
 * @since SAX 2.0
 * @author David Megginson, David Brownell
 * @version 2.0r2pre3
 */
/**
 * Encapsulate Namespace logic for use by SAX drivers.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
 * </blockquote>
 *
 * <p>This class encapsulates the logic of Namespace processing:
 * it tracks the declarations currently in force for each context
 * and automatically processes qualified XML 1.0 names into their
 * Namespace parts; it can also be used in reverse for generating
 * XML 1.0 from Namespaces.</p>
 *
 * <p>Namespace support objects are reusable, but the reset method
 * must be invoked between each session.</p>
 *
 * <p>Here is a simple session:</p>
 *
 * <pre>
 * String parts[] = new String[3];
 * NamespaceSupport support = new NamespaceSupport();
 *  
 * support.pushContext();
 * support.declarePrefix("", "http://www.w3.org/1999/xhtml");
 * support.declarePrefix("dc", "http://www.purl.org/dc#");
 *  
 * String parts[] = support.processName("p", parts, false);
 * System.out.println("Namespace URI: " + parts[0]);
 * System.out.println("Local name: " + parts[1]);
 * System.out.println("Raw name: " + parts[2]);
 *  
 * String parts[] = support.processName("dc:title", parts, false);
 * System.out.println("Namespace URI: " + parts[0]);
 * System.out.println("Local name: " + parts[1]);
 * System.out.println("Raw name: " + parts[2]);
 *  
 * support.popContext();
 * </pre>
 *
 * <p>Note that this class is optimized for the use case where most
 * elements do not contain Namespace declarations: if the same
 * prefix/URI mapping is repeated for each context (for example), this
 * class will be somewhat less efficient.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 */
Default base class for SAX2 event handlers.

This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.

Application writers can extend this class when they need to implement only part of an interface; parser writers can instantiate this class to provide default handlers when the application has not supplied its own.

This class replaces the deprecated SAX1 HandlerBase class.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.EntityResolver
@see org.xml.sax.DTDHandler
@see org.xml.sax.ContentHandler
@see org.xml.sax.ErrorHandler

// NO WARRANTY! This class is in the public domain.
/**
 * This class is available as a convenience base class for SAX2 applications: it provides default implementations for all of the callbacks in the four core SAX2 handler classes:
 * 
 * <ul>
 * <li>{@link org.xml.sax.EntityResolver EntityResolver}</li>
 * <li>{@link org.xml.sax.DTDHandler DTDHandler}</li>
 * <li>{@link org.xml.sax.ContentHandler ContentHandler}</li>
 * <li>{@link org.xml.sax.ErrorHandler ErrorHandler}</li>
 * </ul>
 * 
 * Application writers can extend this class when they need to implement only part of an interface; parser writers can instantiate this class to provide default handlers when the application has not supplied its own.
 * 
 * This class replaces the deprecated SAX1 HandlerBase class.
 */

Found in path(s):
*/

/*
* @version 2.0
*/

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/**
 * Encapsulate an XML parse error or warning.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This exception will include information for locating the error
 * in the original XML document. Note that although the application
 * will receive a SAXParseException as the argument to the handlers
 * in the [org.xml.sax.ErrorHandler ErrorHandler] interface,
 * the application is not actually required to throw the exception;
 * instead, it can simply read the information in it and take a
 * different action.</p>
 *
 * Since this exception is a subclass of [org.xml.sax.SAXException
 * SAXException], it inherits the ability to wrap another exception.</p>
 *
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.SAXException
 * @see org.xml.sax.Locator
 * @see org.xml.sax.ErrorHandler
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/SAXParseException.java
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 */
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/**
 * Basic interface for resolving entities.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * If a SAX application needs to implement customized handling
 * for external entities, it must implement this interface and
 * register an instance with the SAX driver using the
 * { @link org.xml.sax.XMLReader#setEntityResolver setEntityResolver
 * } method.</p>
 *
 * The XML reader will then allow the application to intercept any
 * external entities (including the external DTD subset and external
 * parameter entities, if any) before including them.</p>
 *
 * Many SAX applications will not need to implement this interface,
 * but it will be especially useful for applications that build
 * XML documents from databases or other specialised input sources,
 * or for applications that use URI types other than URLs.</p>
 *
 * The following resolver would provide the application
 * with a special character stream for the entity with the system
 * identifier "http://www.myhost.com/today":</p>
 *
 * import org.xml.sax.EntityResolver;
 * import org.xml.sax.InputSource;
 *
 * public class MyResolver implements EntityResolver {
 *   public InputSource resolveEntity (String publicId, String systemId)
 *   {
 *     if (systemId.equals("http://www.myhost.com/today")) {
 *       // return a special input source
 *       MyReader reader = new MyReader();
 *       return new InputSource(reader);
 *     } else {
 *       // use the default behaviour
 *       return null;
 *     }
 *   }
 * }
 */
The application can also use this interface to redirect system identifiers to local URIs or to look up replacements in a catalog (possibly by using the public identifier).

@since SAX 1.0
@since 2.0
@see org.xml.sax.Parser#setEntityResolver
@see org.xml.sax.InputSource

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/html/HTMLHtmlElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/html/HTMLParagraphElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/html/HTMLBodyElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/html/HTMLBRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/html/HTMLLabelElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableRowElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLSelectElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLMenuElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHeadingElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableCellElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHeadElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBaseFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLOListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLLegendElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFormElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLCollection.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTextAreaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLLIElement.java

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/**
 * Provide an optional convenience implementation of Locator.
 *
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 * Public Domain, and comes with NO WARRANTY.<p></p>
 */

<p>This class is available mainly for application writers, who
* can use it to make a persistent snapshot of a locator at any
* point during a document parse:</p>

<pre>
Locator locator;
Locator startloc;

* public void setLocator (Locator locator)
* { 
*     // note the locator
*     this.locator = locator;
* } 

* public void startDocument ()
* { 
*     // save the location of the start of the document
*     // for future use.
*     Locator startloc = new LocatorImpl(locator);
* } 

*p Normally, parser writers will not use this class, since it
* is more efficient to provide location information only when
* requested, rather than constantly updating a Locator object.</p>

* @since SAX 1.0
* @author David Megginson,
* &lt;a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Locator Locator
*/

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/ParserConfigurationException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/FactoryFinder.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/FactoryConfigurationError.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParserFactory.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParser.java

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// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for reading an XML document using callbacks.
 *
 * &lt;blockquote&gt;
 * &lt;em&gt;This module, both source code and documentation, is in the Public Domain, and comes with &lt;strong&gt;NO WARRANTY &lt;/strong&gt;.&lt;/em&gt;
 * &lt;/blockquote&gt;
 *
 * &lt;p&gt;&lt;strong&gt;Note:&lt;/strong&gt; despite its name, this interface does not&lt;/em&gt; extend the standard Java [@link java.io.Reader Reader] interface, because reading XML is a fundamentally different activity than reading character data.&lt;/p&gt;
 *
 * &lt;p&gt;XMLReader is the interface that an XML parser's SAX2 driver must implement. This interface allows an application to set and query features and properties in the parser, to register event handlers for document processing, and to initiate a document parse.&lt;/p&gt;
 *
 * &lt;p&gt;All SAX interfaces are assumed to be synchronous: the
* { @link #parse parse} methods must not return until parsing
* is complete, and readers must wait for an event-handler callback
* to return before reporting the next event.</p>
*
* &lt;p&gt;This interface replaces the (now deprecated) SAX 1.0 { @link
* org.xml.sax.Parser Parser} interface. The XMLReader interface
* contains two important enhancements over the old Parser
* interface:</p>
*
* &lt;ol&gt;
* &lt;li&gt;it adds a standard way to query and set features and
* properties; and&lt;/li&gt;
* &lt;li&gt;it adds Namespace support, which is required for many
* higher-level XML standards.&lt;/li&gt;
* &lt;/ol&gt;
*
* &lt;p&gt;There are adapters available to convert a SAX1 Parser to
* a SAX2 XMLReader and vice-versa.&lt;/p&gt;
*
* @since SAX 2.0
* @author David Megginson,
*       &lt;a href="mailto:sax@megginson.com">sax@megginson.com</a&gt;</p>
* @version 2.0
* @see org.xml.sax.XMLFilter
* @see org.xml.sax.helpers.ParserAdapter
* @see org.xml.sax.helpers.XMLReaderAdapter
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLReader.java
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/**
* A single input source for an XML entity.
* 
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* Public Domain, and comes with &lt;strong&gt;NO WARRANTY &lt;/strong&gt;.&lt;/em&gt;
* &lt;/blockquote&gt;
*
* &lt;p&gt;This class allows a SAX application to encapsulate information
* about an input source in a single object, which may include
* a public identifier, a system identifier, a byte stream (possibly
* with a specified encoding), and/or a character stream.&lt;/p&gt;
*
* &lt;p&gt;There are two places that the application will deliver this
* input source to the parser: as the argument to the Parser.parse
* method, or as the return value of the EntityResolver.resolveEntity
The SAX parser will use the InputSource object to determine how to read XML input. If there is a character stream available, the parser will read that stream directly; if not, the parser will use a byte stream, if available; if neither a character stream nor a byte stream is available, the parser will attempt to open a URI connection to the resource identified by the system identifier.

An InputSource object belongs to the application: the SAX parser shall never modify it in any way (it may modify a copy if necessary).

@since SAX 1.0
@author David Megginson, sax@megginson.com
@version 2.0
@see org.xml.sax.Parser#parse
@see org.xml.sax.EntityResolver#resolveEntity
@see java.io.InputStream
@see java.io.Reader

// NO WARRANTY! This class is in the Public Domain.
/**
 * Exception class for an unsupported operation.
 *
 * <blockquote>
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 * </blockquote>
 *
 * An XMLReader will throw this exception when it recognizes a
 * feature or property identifier, but cannot perform the requested
 * operation (setting a state or value). Other SAX2 applications and
 * extensions may use this class for similar purposes.
 *
 * @since SAX 2.0
 * @author David Megginson,
 * sax@megginson.com
 * @version 2.0
 * @see org.xml.sax.SAXNotRecognizedException
 */
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/** 
* Adapt a SAX1 Parser as a SAX2 XMLReader.
* 
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* </blockquote> 
* 
* <p>This class wraps a SAX1 {link org.xml.sax.Parser Parser]
and makes it act as a SAX2 \{[@link org.xml.sax.XMLReader XMLReader]\},
with feature, property, and Namespace support. Note
that it is not possible to report \{[@link org.xml.sax.ContentHandler#skippedEntity
skippedEntity]\} events, since SAX1 does not make that information available.</p>

<p>This adapter does not test for duplicate Namespace-qualified
attribute names.</p>

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.helpers.XMLReaderAdapter
@see org.xml.sax.XMLReader
@see org.xml.sax.Parser
*/
/**
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 *
 * This class is in the Public Domain, and comes with NO
 * WARRANTY of any kind.</p>
 *
 * This wrapper class is used only when Namespace support
 * is disabled -- it provides pretty much a direct mapping
 * from SAX1 to SAX2, except that names and types are
 * interned whenever requested.</p>
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/ParserAdapter.java
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/**
 * Default implementation of the Attributes interface.
 *
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.<\em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 */

<p>This class provides a default implementation of the SAX2
[@link org.xml.sax.Attributes Attributes] interface, with the
addition of manipulators so that the list can be modified or
reused.</p>
There are two typical uses of this class:

1. To take a persistent snapshot of an Attributes object in a `startElement` event; or
2. To construct or modify an Attributes object in a SAX2 driver or filter.

This class replaces the now-deprecated SAX1 `AttributeListImpl` class; in addition to supporting the updated Attributes interface rather than the deprecated `AttributeList` interface, it also includes a much more efficient implementation using a single array rather than a set of Vectors.

@since SAX 2.0
@version 2.0.1 (sax2r2)

This class contains a static method for creating an instance of a class from an explicit class name. It tries to use the thread's context ClassLoader if possible and falls back to using `Class.forName(String)`. It also takes into account JDK 1.2+'s `AccessController` mechanism for performing its actions.

This code is designed to run on JDK version 1.1 and later and compile on versions of Java 2 and later.
Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/NewInstance.java
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/**
 * Encapsulate a general SAX error or warning.
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em></blockquote>
 * This class can contain basic error or warning information from
 * either the XML parser or the application: a parser writer or
 * application writer can subclass it to provide additional
 * functionality. SAX handlers may throw this exception or
 * any exception subclassed from it.</p>
 * <p>If the application needs to pass through other types of
 * exceptions, it must wrap those exceptions in a SAXException
 * or an exception derived from a SAXException.</p>
 * <p>If the parser or application needs to include information about a
 * specific location in an XML document, it should use the
 * SAXParseException subclass.</p>
 * @since SAX 1.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.SAXParseException
 */

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/**
 * Exception class for an unrecognized identifier.
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em></blockquote>
 */
An XMLReader will throw this exception when it finds an unrecognized feature or property identifier; SAX applications and extensions may use this class for other, similar purposes.

@since SAX 2.0
@author David Megginson, sax@megginson.com
@version 2.0
@see org.xml.sax.SAXNotSupported exception

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Create a new <code>DOMBuilder</code>. The newly constructed parser may then be configured by means of its <code>setFeature</code> method, and used to parse documents by means of its <code>parse</code> method.

@<param mode> The <code>mode</code> argument is either 
   <code>MODE_SYNCHRONOUS</code> or <code>MODEASYNCHRONOUS</code>, if 
   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the 
   <code>DOMBuilder</code> that is created will operate in synchronous 
   mode, if it's <code>MODEASYNCHRONOUS</code> then the
* <code>DOMBuilder</code> that is created will operate in asynchronous mode.
* @param schemaType An absolute URI representing the type of the schema
  * language used during the load of a <code>Document</code> using the newly created <code>DOMBuilder</code>. Note that no lexical checking is done on the absolute URI. In order to create a <code>DOMBuilder</code> for any kind of schema types (i.e. the DOMBuilder will be free to use any schema found), use the value <code>null</code>. For W3C XML Schema, applications must use the value <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD, applications must use the value <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages are outside the scope of the W3C and therefore should recommend an absolute URI in order to use this method.
* @return  The newly created <code>DOMBuilder</code> object. This <code>DOMBuilder</code> is either synchronous or asynchronous depending on the value of the <code>mode</code> argument. By default, the newly created <code>DOMBuilder</code> does not contain a <code>DOMErrorHandler</code>, i.e. the value of the <code>errorHandler</code> is <code>null</code>. However, implementations may provide a default error handler at creation time. In that case, the initial value of the <code>errorHandler</code> attribute on the new created <code>DOMBuilder</code> contains a reference to the default error handler.
* @exception DOMException
  * NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is not supported.

*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMImplementationLS.java
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/**
 * Basic interface for SAX (Simple API for XML) parsers.
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 *<p>
 * This was the main event supplier interface for SAX1; it has been replaced in SAX2 by {@link org.xml.sax.XMLReader XMLReader}, which includes Namespace support and sophisticated configurability and extensibility.<p>
 */
All SAX1 parsers must implement this basic interface: it allows applications to register handlers for different types of events and to initiate a parse from a URI, or a character stream.

All SAX1 parsers must also implement a zero-argument constructor (though other constructors are also allowed).

SAX1 parsers are reusable but not re-entrant: the application may reuse a parser object (possibly with a different input source) once the first parse has completed successfully, but it may not invoke the parse() methods recursively within a parse.

@deprecated This interface has been replaced by the SAX2 <link org.xml.sax.XMLReader XMLReader> interface, which includes Namespace support.

@since SAX 1.0
@author David Megginson, <a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.EntityResolver
@see org.xml.sax.DTDHandler
@see org.xml.sax.DocumentHandler
@see org.xml.sax.ErrorHandler
@see org.xml.sax.HandlerBase
@see org.xml.sax.InputSource

This is an optional extension handler for SAX2 to provide information about DTD declarations in an XML document. XML readers are not required to support this handler, and this handler is not included in the core SAX2 distribution.

Note that data-related DTD declarations (unparsed entities and notations) are already reported through the <link org.xml.sax.DTDHandler DTDHandler> interface.
If you are using the declaration handler together with a lexical handler, all of the events will occur between the
{@link org.xml.sax.ext.LexicalHandler#startDTD startDTD} and the
{@link org.xml.sax.ext.LexicalHandler#endDTD endDTD} events.</p>

To set the DeclHandler for an XML reader, use the
{@link org.xml.sax.XMLReader#setProperty setProperty} method
with the propertyId "http://xml.org/sax/properties/declaration-handler".
If the reader does not support declaration events, it will throw a
SAXNotRecognizedException or a SAXNotSupportedException
when you attempt to register the handler.</p>

@since 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 1.0
@see org.xml.sax.XMLReader

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This class is designed to work with the now-deprecated
SAX1 { @link org.xml.sax.Parser Parser} class. SAX2 applications should use
{@link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory} instead.
ParserFactory is not part of the platform-independent definition
of SAX; it is an additional convenience class designed
specifically for Java XML application writers. SAX applications
can use the static methods in this class to allocate a SAX parser
dynamically at run-time based either on the value of the
"org.xml.sax.parser" system property or on a string containing the class
name.
* Note that the application still requires an XML parser that
  implements SAX1.</p>
* @deprecated This class works with the deprecated
  {@link org.xml.sax.Parser Parser} interface.
* @since SAX 1.0
* @author David Megginson
* @version 2.0r2pre3
*/

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  jar/javax/xml/parsers/FilePathToURI.java
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/**
* Adapt a SAX2 XMLReader as a SAX1 Parser.
*
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* 
* <p>This class wraps a SAX2 [ @link org.xml.sax.XMLReader XMLReader]
* and makes it act as a SAX1 [ @link org.xml.sax.Parser Parser]. The XMLReader
* must support a true value for the
* http://xml.org/sax/features/namespace-prefixes property or parsing will fail
* with a [ @link org.xml.sax.SAXException SAXException]; if the XMLReader
* supports a false value for the http://xml.org/sax/features/namespaces
* property, that will also be used to improve efficiency.&lt;/p&gt;
* 
* @since SAX 2.0
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/**
 * Receive notification of the logical content of a document.
 *
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 *
 * This is the main interface that most SAX applications implement: if the application needs to be informed of basic parsing events, it implements this interface and registers an instance with the SAX parser using the method. The parser uses the instance to report basic document-related events like the start and end of elements and character data.
 *
 * The order of events in this interface is very important, and mirrors the order of information in the document itself. For example, all of an element's content (character data, processing instructions, and/or subelements) will appear, in order, between the startElement event and the corresponding endElement event.
 *
 * This interface is similar to the now-deprecated SAX 1.0 DocumentHandler interface, but it adds support for Namespaces and for reporting skipped entities (in non-validating XML processors).
 *
 * Implementors should note that there is also a Java class in the java.net.ContentHandler ContentHandler package; that means that it's probably a bad idea to do
 *
 * <blockquote>
 * import java.net.*;
 * import org.xml.sax.*;
 * </blockquote>
In fact, "import ...*" is usually a sign of sloppy programming anyway, so the user should consider this a feature rather than a bug.</p>

@since SAX 2.0
@version 2.0
@see org.xml.sax.XMLReader
@see org.xml.sax.DTDHandler
@see org.xml.sax.ErrorHandler

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/**
 * SAX2 extension handler for lexical events.
 *
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 * </blockquote>
 *
 * This is an optional extension handler for SAX2 to provide
 * lexical information about an XML document, such as comments
 * and CDATA section boundaries; XML readers are not required to
 * support this handler, and it is not part of the core SAX2
 * distribution.</p>
 *
 * The events in the lexical handler apply to the entire document,
 * not just to the document element, and all lexical handler events
 * must appear between the content handler's startDocument and
 * endDocument events.</p>
 *
 * To set the LexicalHandler for an XML reader, use the
 * [setProperty method](http://xml.org/sax/properties/lexical-handler).
 * If the reader does not support lexical events, it will throw a
 * [SAXNotRecognizedException](org.xml.sax.SAXNotRecognizedException) or a
 * [SAXNotSupportedException](org.xml.sax.SAXNotSupportedException)
 * when you attempt to register the handler.</p>

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1.1016 activation 1.1.1

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  jar/com/ning/http/client/providers/netty/Callback.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/handler/ConnectionStrategy.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/channel/pool/ChannelPool.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/channel/CleanupChannelGroup.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/channel/pool/DefaultChannelPool.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/handler/DefaultConnectionStrategy.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/request/body/FeedableBodyGenerator.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/SSLEngineFactory.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/ws/WebSocketTextFragmentListener.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/channel/pool/ChannelPoolPartitionSelector.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/request/body/NettyMultipartBody.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/uri/URIParser.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/request/body/NettyBody.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/util/ChannelBufferUtils.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/ws/WebSocketUtils.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/response/NettyResponseBodyPart.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/request/body/BodyChunkedInput.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/ws/NettyWebSocket.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/uri/URIParser.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/ws/WebSocketUtils.java
* /opt/cola/permits/115111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/providers/netty/handler/DefaultConnectionStrategy.java

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* /opt/cola/permits/1151111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
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* Value class used for OAuth tokens (request secret, access secret);
* simple container with two parts, public id part ("key") and
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*/

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jar/com/ning/http/client/AsyncHttpProvider.java
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jar/com/ning/http/client/multipart/MultipartUtils.java
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jar/com/ning/http/client/ws/DefaultWebSocketListener.java

1.1019 javascript-common 11
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* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-
jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java
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### xwd utility

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include/GL/glxext.h
include/GL/wglext.h :

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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
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.1028 pbis-open 8.7.0.478

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* @(#)pathnames.h 8.5 (Berkeley) 12/21/93
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* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/PORT/sunos.4.1.1/include/pathnames.h

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* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/PORT/osf.1.0.2/include/compat.h
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/PORT/hpux.9.01/include/compat.h
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/PORT/dgux.5.4/include/compat.h
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/PORT/sinix.5.41/include/compat.h
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/PORT/aix.3.2/include/compat.h
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/PORT/bsd.1.0/include/compat.h
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/PORT/irix.4.05F/include/compat.h
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/PORT/sunos.5.2/include/compat.h
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/PORT/ultrix.4.2/include/compat.h
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/*
 * @(#)cdefs.h.8.7 (Berkeley) 1/21/94
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```bash
%(#)psdit.pro.1.3 4/15/88
% lib/psdit.pro -- prolog for psdit (ditroff) files
% Copyright (c) 1984, 1985 Adobe Systems Incorporated. All Rights Reserved.
% last edit: shore Sat Nov 23 20:28:03 1985
% RCSID: $Header: psdit.pro,v 2.1 85/11/24 12:19:43 shore Rel $

Found in path(s):
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/docs/hash.usenix.ps
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/docs/libtp.usenix.ps
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* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/test/hash.tests/driver2.c
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/test/hash.tests/tseq.c
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/test/hash.tests/verify.c
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/test/hash.tests/tcreat3.c
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/test/hash.tests/tread2.c

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* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/test/hash.tests/thash4.c
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/test/hash.tests/del.c
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* @(#)mpool.h 8.4 (Berkeley) 11/2/95
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The maximum number of keys which will be stored on any single page. Because of the way the btree data structure works,

`.I maxkeypage

must always be greater than or equal to 2.

`.I maxkeypage

is 0 (no maximum number of keys is specified) the page fill factor is made as large as possible (which is almost invariably what is wanted).

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* @(#)search.h 8.1 (Berkeley) 6/4/93
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* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/recno/rec_put.c
* /opt/cola/permits/1208491745_1632895974.69/0/db-1-86-tar/db.1.86/recno/rec_get.c
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  * @(#)local.h 5.3 (Berkeley) 5/6/93

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*/opt/cola/permits/1208491745_1632895974.69/0/db-1.86-tar/db.1.86/hash/hash_func.c
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Three additional options may be specified by
IR or 'ing
them into the
.I flags
argument.

DB_LOCK
Do the necessary locking in the database to support concurrent access.
If concurrent access isn't needed or the database is read-only this
flag should not be set, as it tends to have an associated performance
penalty.

DB_SHMEM
Place the underlying memory pool used by the database in shared
memory.
Necessary for concurrent access.

DB_TXN
Support transactions in the database.
The DB_LOCK and DB_SHMEM flags must be set as well.

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@(#)extern.h 8.10 (Berkeley) 7/20/94
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1ubuntu1~ubuntu16.04.1

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It was downloaded from http://www.tcpdump.org/

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

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

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

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

/* Storage used for special numbers. */
bnum _zero_
bnnum _one_
bnnum _two_

static bnnum _bc_Free_list = NULL;

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

bnum
bnnum (length, scale)
    int length, scale;
{
    bnnum temp;

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

/* "Frees" a bnnum NUM. Actually decreases reference count and only
frees the storage if reference count is zero. */

void
bc_free_num (num)
    bnnum *num;
{
    if (*num == NULL) return;

    ..
(*num)->n.refs--;  
if (((*num)->n.refs == 0) {
    if (((*num)->n.ptr)
        free ((*num)->n.ptr);
    (*num)->n.next = _bc_Free_list;
    _bc_Free_list = *num;
}
*num = NULL;
}

/* Initialize the number package! */

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

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

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

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

void
bc_init_num (num)
    bc_num *num;
{
    *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.  
   _bc_rm_leading_zeros just moves the data "value" pointer to the 
   correct place and adjusts the length. */
static void
_bc_rm_leading_zeros (num)
bc_num num;
{
/* We can move n_value to point to the first non zero digit! */
while (*num->n_value == 0 && num->n_len > 1) {
    num->n_value++;
    num->n_len--;
}
}

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

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

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

    /* Now compare the magnitude. */
    if (n1->n_len != n2->n_len)
    {
        if (n1->n_len > n2->n_len)
        {
            /* Magnitude of n1 > n2. */
            if (!use_sign || n1->n_sign == PLUS)
                return (1); /* Positive N1 > Negative N2 */
            else
                return (-1); /* Negative N1 < Positive N1 */
        }
        else
        {
            /* Magnitude of n1 < n2. */
            if (!use_sign || n1->n_sign == PLUS)
                return (1); /* Positive N1 > Negative N2 */
            else
                return (-1); /* Negative N1 < Positive N1 */
        }
    }
}
if (!use_sign || n1->n_sign == PLUS)
    return (-1);
else
    return (1);
}

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

n1ptr = n1->n_value;
n2ptr = n2->n_value;
while ((count > 0) && (*n1ptr == *n2ptr))
{
    n1ptr++;
    n2ptr++;
    count--;
}

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

/* This is the "user callable" routine to compare numbers N1 and N2. */
int
bc_compare (n1, n2)
   bc_num n1, n2;
{
   return _bc_do_compare (n1, n2, TRUE, FALSE);
}

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

/* In some places we need to check if the number NUM is zero. */
char
bc_is_zero (num)
    bc_num num;
{
    int count;
    char *nptr;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

  /* Add the fraction part. First copy the longer fraction. */
  if (n1bytes != n2bytes)
    {
      if (n1bytes > n2bytes)
        while (n1bytes>n2bytes)
          { *sumptr-- = *n1ptr--; n1bytes--; }
      else
        while (n2bytes>n1bytes)
          { *sumptr-- = *n2ptr--; n2bytes--; }
    }
/* Now add the remaining fraction part and equal size integer parts. */

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

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

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

/* Set final carry. */

if (carry == 1)
{ 
    *sumptr += 1;
}

/* Adjust sum and return. */

.bc_rm_leading_zeros (sum);
return sum;

/* Perform subtraction: N2 is subtracted from N1 and the value is
static bc_num
    _bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
    {
        bc_num diff;
        int diff_scale, diff_len;
        int min_scale, min_len;
        char *n1ptr, *n2ptr, *diffptr;
        int borrow, count, val;

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

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

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

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

        /* Take care of the longer scaled number. */
        if (n1->n_scale != min_scale)
            {
                /* n1 has the longer scale */
                for (count = n1->n_scale - min_scale; count > 0; count--)
                    *diffptr-- = *n1ptr--;
            }
        else
            {
                /* n2 has the longer scale */
            }
for (count = n2->n_scale - min_scale; count > 0; count--)
{
  val = - *n2ptr-- - borrow;
  if (val < 0)
    {
      val += BASE;
      borrow = 1;
    }
  else
    borrow = 0;
  *diffptr-- = val;
}

/* Now do the equal length scale and integer parts. */

for (count = 0; count < min_len + min_scale; count++)
{
  val = *n1ptr-- - *n2ptr-- - borrow;
  if (val < 0)
    {
      val += BASE;
      borrow = 1;
    }
  else
    borrow = 0;
  *diffptr-- = val;
}

/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
{
  for (count = diff_len - min_len; count > 0; count--)
  {
    val = *n1ptr-- - borrow;
    if (val < 0)
      {
        val += BASE;
        borrow = 1;
      }
    else
      borrow = 0;
    *diffptr-- = val;
  }
}

/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;

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

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

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

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

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

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

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

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

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

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

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
    int full_scale)
{
    char *n1ptr, *n2ptr, *pvptr;
    char *n1end, *n2end;/* To the end of n1 and n2. */
    int indx, sum, prodlen;
prodlen = n1len+n2len+1;

*prod = bc_new_num (prodlen, 0);

n1end = (char *) (n1->n_value + n1len - 1);

n2end = (char *) (n2->n_value + n2len - 1);

pvptr = (char *) (*prod->n_value + prodlen - 1);

sum = 0;

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

*pvptr = sum;

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

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

    /* Set up pointers and others */
    accp = (signed char *)(accum->n_value + accum->n_len + accum->n_scale - shift - 1);
    valp = (signed char *)(val->n_value + val->n_len - 1);
    carry = 0;

    if (sub) {
        /* Subtraction, carry is really borrow. */
        while (count--)
        {
            *accp -= *valp-- + carry;
        }
    }
}
if (*accp < 0) {
    carry = 1;
    *accp-- += BASE;
} else {
    carry = 0;
    accp--;
}
while (carry) {
    *accp -= carry;
    if (*accp < 0)
        *accp-- += BASE;
    else
        carry = 0;
}
while (carry) {
    *accp += carry;
    if (*accp > (BASE-1))
        carry = 1;
    else
        carry = 0;
}
/* Addition */
while (count--) {
    *accp += *valp-- + carry;
    if (*accp > (BASE-1))
        carry = 1;
    else
        carry = 0;
}
while (carry) {
    *accp += carry;
    if (*accp > (BASE-1))
        carry = 1;
    else
        carry = 0;
}

/* Recursive divide and conquer multiply algorithm.
   Based on
   Let u = u0 + u1*(b^n)
   Let v = v0 + v1*(b^n)
   Then uv = (B^(2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0

   B is the base of storage, number of digits in u1,u0 close to equal.
   */
static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
              int full_scale)
{  
    bc_num u0, u1, v0, v1;  
    int u0len, v0len;  
    bc_num m1, m2, m3, d1, d2;  
    int n, prodlen, m1zero;  
    int d1len, d2len;

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

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

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

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

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

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
    m2 = bc_copy_num (_zero_);
else
    _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
    _bc_shift_addsub (*prod, m1, 2*n, 0);
    _bc_shift_addsub (*prod, m1, n, 0);
}
    _bc_shift_addsub (*prod, m3, n, 0);
    _bc_shift_addsub (*prod, m3, 0, 0);
    _bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);
bc_free_num (&d1);
bc_free_num (&d2);

/* The multiply routine. N2 times N1 is put int PROD with the scale of
the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)). */
void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;

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

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

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

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

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
    int carry, value;
    unsigned char *nptr, *rptr;

    if (digit == 0)
        memset (result, 0, size);
    else
        

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

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

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

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

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

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

/* Set up the divide. Move the decimal point on n1 by n2's scale. */
    scale2 = n2->n_scale;
    n2ptr = (unsigned char *) n2->n_value + n2->n_len + scale2 - 1;
    while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

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

    len2 = n2->n_len + scale2;
    num2 = (unsigned char *) malloc (len2 + 1);
    if (num2 == NULL) bc_out_of_memory();
    memcpy (num2, n2->n_value, len2);
    *(num2 + len2) = 0;
    n2ptr = num2;
    while (*n2ptr == 0)
    {
        n2ptr++;
        len2--;
    }

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

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

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

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

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

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

        /* Test qguess. */
        if (n2ptr[1]*qguess >
            (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
            + num1[qdig+2])
        {
qguess--;  
/* And again. */
if (n2ptr[1]*qguess >  
(num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10  
+ num1[qdig+2])
qguess--;  
}  
/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)  
{  
*mval = 0;
  _one_mult (n2ptr, len2, qguess, mval+1);
  ptr1 = (unsigned char *) num1+qdig+len2;
  ptr2 = (unsigned char *) mval+len2;
  for (count = 0; count < len2+1; count++)  
  {  
    val = (int) *ptr1 - (int) *ptr2-- - borrow;
    if (val < 0)  
    {  
      val += 10;
      borrow = 1;
    }  
    else
    borrow = 0;
    *ptr1-- = val;
  }  
}  
/* Test for negative result. */
if (borrow == 1)  
{  
  qguess--;  
  ptr1 = (unsigned char *) num1+qdig+len2;
  ptr2 = (unsigned char *) n2ptr+len2-1;
  carry = 0;
  for (count = 0; count < len2; count++)  
  {  
    val = (int) *ptr1 + (int) *ptr2-- + carry;
    if (val > 9)  
    {  
      val -= 10;
      carry = 1;
    }  
    else
    carry = 0;
    *ptr1-- = val;
  }  
}
if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;

/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;
}

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;

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

return 0; /* Everything is OK. */

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

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

   /* Check for correct numbers. */
   if (bc_is_zero (num2)) return -1;

   /* Calculate final scale. */
   rscale = MAX (num1->n_scale, num2->n_scale+scale);
   bc_init_num(&temp);

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

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

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

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

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

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

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

  /* Check for correct numbers. */
  if (bc_is_zero(mod)) return -1;
  if (bc_is_neg(expo)) return -1;

  /* Set initial values. */
  power = bc_copy_num (base);
  exponent = bc_copy_num (expo);
  temp = bc_copy_num (_one_);
/* Check the base for scale digits. */
if (base->n_scale != 0)
  bc_rt_warn ("non-zero scale in base");

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

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

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

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

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT. 
   Maximum exponent is LONG_MAX. If a NUM2 is not an integer, 
   only the integer part is used. */

void
bc_raise (num1, num2, result, scale)
  bc_num num1, num2, *result;
  int scale;
{  
bc_num temp, power;
long exponent;
int rscale;
int pwrscale;
int calcscale;
char neg;

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

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

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

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

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

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

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

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

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

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

/* Calculate the initial guess. */
if (cmp_res < 0)
{
  /* The number is between 0 and 1. Guess should start at 1. */
  guess = bc_copy_num (_one_);
  cscale = (*num)->n_scale;
}
else
{
  /* The number is greater than 1. Guess should start at 10^(exp/2). */
  bc_int2num (&guess,10);
  bc_int2num (&guess1,(*num)->n_len);
  bc_multiply (guess1, point5, &guess1, 0);
  guess1->n_scale = 0;
  bc_raise (guess, guess1, &guess, 0);
  bc_free_num (&guess1);
  cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
  bc_free_num (&guess1);
guess1 = bc_copy_num (guess);
bc_divide (*num, guess, &guess, cscale);
bc_add (guess, guess1, &guess, 0);
bc_multiply (guess, point5, &guess, cscale);
bc_sub (guess, guess1, &diff, cscale+1);
if (bc_is_near_zero (diff, cscale))
{
    if (cscale < rscale+1)
        cscale = MIN (cscale*3, rscale+1);
    else
        done = TRUE;
}

/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess, _one_, num, rscale);
bc_free_num (&guess);
bc_free_num (&guess1);
bc_free_num (&point5);
bc_free_num (&diff);
return 1;
}

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

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

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

/* A special output routine for "multi-character digits." Exactly */
/* SIZE characters must be output for the value VAL. If SPACE is */
/* non-zero, we must output one space before the number. OUT_CHAR */
/* is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#undef __STDC__
void (*out_char)(int);
#endif
{
char digits[40];
int len, ix;

if (space) (*out_char) (' ');
sprintf (digits, "%ld", val);
len = strlen (digits);
while (size > len)
{
    (*out_char) ('0');
    size--;
}
for (ix=0; ix < len; ix++)
    (*out_char) (digits[ix]);
}

/* Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR
   as the routine to do the actual output of the characters. */
void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
{
    char *nptr;
    int index, fdigit, pre_space;
    stk_rec *digits, *temp;
    bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

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

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

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

/* Now the fraction. */
if (num->n_scale > 0)
{
    (*out_char) ('.);
    for (index=0; index<num->n_scale; index++)
        (*out_char) (BCD_CHAR(*nptr++));
}
else
{
    /* special case ... */
    if (leading_zero && bc_is_zero (num))
        (*out_char) ('0');

/* The number is some other base. */
digits = NULL;
bc_init_num (&int_part);
bc_divide (num, _one_, &int_part, 0);
b_set_part (&frac_part);
b_set_part (&cur_dig);
b_set_part (&base);
b_sub (num, int_part, &frac_part, 0);
/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
b_int2num (&base, o_base);
b_init_num (&max_o_digit);
b_int2num (&max_o_digit, o_base-1);
/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
{
    bc_modulo (int_part, base, &cur_dig, 0);
temp = (stk_rec *) malloc (sizeof(stk_rec));
    if (temp == NULL) bc_out_of_memory();
temp->digit = bc_num2long (cur_dig);
temp->next = digits;
digits = temp;
bc_divide (int_part, base, &int_part, 0);
}

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

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

/* Clean up. */
bc_free_num (&int_part);
bcs_free_num (&frac_part);
bcs_free_num (&base);
bcs_free_num (&cur_dig);
/* Convert a number NUM to a long. The function returns only the integer part of the number. For numbers that are too large to represent as a long, this function returns a zero. This can be detected by checking the NUM for zero after having a zero returned. */

long
bc_num2long (num)

bc_num num;
{
    long val;
    char *nptr;
    int index;

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

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

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

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

void
bc_int2num (num, val)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

/* Build the fractional part. */
if (strscale > 0)
{
    ptr++; /* skip the decimal point! */
    for (; strscale > 0; strscale--)
        *nptr++ = CH_VAL(*ptr++);
}

/* pn prints the number NUM in base 10. */
static void
out_char (int c)
{ putchar(c); }

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

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

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Version 2.1, February 1999

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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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(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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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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The punycode implementation is based on the sample code in RFC 3492

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1.1052 asm-debug-all 5.0.4
1.1053 icu 55.1-7ubuntu0.2

1.1053.1 Available under license:

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The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on Tue, 17 Mar 2015.

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

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

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

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

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

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

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

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.
c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICFLAGS) -o @ $(<
%: $(srcdir)/%.c
```
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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

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

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

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

1.1054 libgpg-error 1.21 2ubuntu1
1.1054.1 Available under license:

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Name: websocket-server
Version: 0.4
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
``src/lib/gssapi``. including the following files:

.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_cred.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_cred.c
    lib/gssapi/mechglue/g_rel_name.c
    lib/gssapi/mechglue/g_rel_oid_set.c
    lib/gssapi/mechglue/g_seal.c
    lib/gssapi/mechglue/g_sign.c
    lib/gssapi/mechglue/g_store_cred.c
    lib/gssapi/mechglue/g_unseal.c
    lib/gssapi/mechglue/g_userok.c
    lib/gssapi/mechglue/g_utils.c
    lib/gssapi/mechglue/g_verify.c
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

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

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<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
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<script type="text/javascript">
  var DOCUMENTATION_OPTIONS = {
    URL_ROOT:  './',
    VERSION:  '1.17',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
        # DB2 licenses start with '/**-' and we don't want to change them.
        if line != '' and line != '-':
            text_seen = True
    return is_license
def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* \([^ \*]*\)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*?\*/', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                    code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        elif line.strip() != '':
            code_seen = True
        ln += 1

    for fname in sys.argv[1:]:
        if fname.startswith('./'):
            fname = fname[2:]
        f = open(fname)
        lines = f.readlines()
        f.close()
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1.1064 kubernetes-apiserver 0.21.0

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1.1065 python 3.5.2-2ubuntu0~16.04.1

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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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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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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.
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A. HISTORY OF THE SOFTWARE

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

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

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

#define 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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Protocol Buffers for Go with Gadgets

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Support for streaming Protocol Buffer messages for the Go language (golang).
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  jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
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  jar/org/apache/commons/logging/impl/ServletContextCleaner.java
1.1079 httpcore-nio 4.4.5

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1.1083 bean-validation-api 1.1.0.Final

1.1084 netty-codec-socks 4.1.47.Final

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Manifest-Version: 1.0
Implementation-Title: Netty/Codec/Socks
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.codec.socks
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec-socks
Implementation-Version: 4.1.47.Final
Built-By: root
Bnd-LastModified: 1583757734093
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.codec,io.netty.util;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)",resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)",resolution:=optional
Require-Capability: osgi.ee;filter="(&osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Codec/Socks
Bundle-Version: 4.1.47.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_212
Implementation-URL: https://netty.io/netty-codec-socks/
1.1085 c3p0 0.9.1.1

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

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
## End FreeBSD-specific setup

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

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The End

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.

build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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terms.

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

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

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

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

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

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

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

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

That's all there is to it!

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut
use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

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

my ($opt) = @ARGV;

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

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

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

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

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

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

    $year;
}
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    Ty Coon, President of Vice

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

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1.1104 libxau 1.0.8 1
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1.1105 ipmi-tool 1.8.15

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1.1106 zookeeper-jute 3.6.2

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    options {
        STATIC=false;
    }

    PARSER_BEGIN(Rcc)
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     */

    package org.apache.jute.compiler.generated;

    import org.apache.jute.compiler.*;
    import java.util.ArrayList;
    import java.util.Hashtable;
    import java.io.File;
    import java.io.FileReader;
    import java.io.FileNotFoundException;
    import java.io.IOException;
    @SuppressWarnings("unused")
    public class Rcc {
        private static Hashtable<String, JRecord> recTab = new Hashtable<String, JRecord>();
        private static String curDir = System.getProperty("user.dir");
        private static String curFileName;
        private static String curModuleName;
        ...
```java
public static void main(String[] args) {
    String language = "java";
    ArrayList<String> recFiles = new ArrayList<String>();
    JFile curFile = null;

    for (int i = 0; i < args.length; i++) {
        if ("-l".equalsIgnoreCase(args[i]) ||
            "--language".equalsIgnoreCase(args[i])) {
            language = args[i + 1].toLowerCase();
            i++;
        } else {
            recFiles.add(args[i]);
        }
    }

    if (!"c++".equals(language) && !"java".equals(language) && !"c".equals(language)) {
        System.out.println("Cannot recognize language:" + language);
        System.exit(1);
    }

    if (recFiles.size() == 0) {
        System.out.println("No record files specified. Exiting.");
        System.exit(1);
    }

    for (int i = 0; i < recFiles.size(); i++) {
        curFileName = recFiles.get(i);
        File file = new File(curFileName);
        try {
            curFile = parseFile(file);
        } catch (FileNotFoundException e) {
            System.out.println("File " + recFiles.get(i) + " Not found.");
            System.exit(1);
        } catch (ParseException e) {
            System.out.println(e.toString());
            System.exit(1);
        }

        System.out.println(recFiles.get(i) + " Parsed Successfully");
        try {
            curFile.genCode(language, new File("."));
        } catch (IOException e) {
            System.out.println(e.toString());
            System.exit(1);
        }
    }
}

public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
    curDir = file.getParent();
    curFileName = file.getName();
}
```
FileReader reader = new FileReader(file);
try {
    Rcc parser = new Rcc(reader);
    recTab = new Hashtable<String, JRecord>();
    return parser.Input();
} finally {
    try {
        reader.close();
    } catch (IOException e) {
    }
}

PARSER_END(Rcc)

SKIP :
{
  " "
| "\t"
| "\n"
| "\r"
}

SPECIAL_TOKEN :
{
  "/\/*" : WithinOneLineComment
}

<WithinOneLineComment> SPECIAL_TOKEN :
{
  <("\n" | "\r" | "\r\n")> : DEFAULT
}

<WithinOneLineComment> MORE :
{
  <~[>]>
}

SPECIAL_TOKEN :
{
  "/\/*" : WithinMultiLineComment
}

<WithinMultiLineComment> SPECIAL_TOKEN :
{
  "*/" : DEFAULT
}
JFile Input() {
    ArrayList<JFile> ilist = new ArrayList<JFile>();
    ArrayList<JRecord> rlist = new ArrayList<JRecord>();
    JFile i;
    ArrayList<JRecord> l;
    
    (i = Include())
        { ilist.add(i); }
    | (l = Module())
        { rlist.addAll(l); }
    )+
    <EOF>
    { return new JFile(curFileName, ilist, rlist); }
JFile Include():
{
  String fname;
  Token t;
}
{
  <INCLUDE_TKN>
  t = <CSTRING_TKN>
  {
    JFile ret = null;
    fname = t.image.replaceAll("^"", "").replaceAll(""S", "");
    File file = new File(curDir, fname);
    String tmpDir = curDir;
    String tmpFile = curFileName;
    curDir = file.getParent();
    curFileName = file.getName();
    try {
      FileReader reader = new FileReader(file);
      Rcc parser = new Rcc(reader);
      try {
        ret = parser.Input();
        System.out.println(fname + " Parsed Successfully");
      } catch (ParseException e) {
        System.out.println(e.toString());
        System.exit(1);
      }
      try {
        reader.close();
      } catch (IOException e) {
      }
    } catch (FileNotFoundException e) {
      System.out.println("File " + fname + " Not found.");
      System.exit(1);
    }
    curDir = tmpDir;
    curFileName = tmpFile;
    return ret;
  }
  
  ArrayList<JRecord> Module():
  {
    String mName;
    ArrayList<JRecord> rlist;
  }
{<MODULE_TKN>
mName = ModuleName()
{ curModuleName = mName; }
<LBRACE_TKN>
  rlist = RecordList()
<RBRACE_TKN>
  { return rlist; }
}

String ModuleName() :
{
  String name = "";
  Token t;
}
{
  t = <IDENT_TKN>
  { name += t.image; }
  ( <DOT_TKN>
    t = <IDENT_TKN>
    { name += "." + t.image; }
  )* 
  { return name; }
}

ArrayList<JRecord> RecordList() : 
{
  ArrayList<JRecord> rlist = new ArrayList<JRecord>();
  JRecord r;
}
{
  ( r = Record()
    { rlist.add(r); } )+
  { return rlist; }
}

JRecord Record() :
{
  String rname;
  ArrayList<JField> flist = new ArrayList<JField>();
  Token t;
  JField f;
}
{
  <RECORD_TKN>
```java
        t = <IDENT_TKN>
        { rname = t.image; }
        <LBRACE_TKN>
                (  
                        f = Field()
                        { flist.add(f); }
                        <SEMICOLON_TKN>
                )+  
        <RBRACE_TKN>
                {  
                        String fqn = curModuleName + "." + rname;
                        JRecord r = new JRecord(fqn, flist);
                        recTab.put(fqn, r);
                        return r;
                }
        }

        JField Field() :  
        {  
                JType jt;
                Token t;
        }
        {  
                jt = Type()
                t = <IDENT_TKN>  
                { return new JField(jt, t.image); }
        }

        JType Type() :  
        {  
                JType jt;
                Token t;
                String rname;
        }
        {  
                jt = Map()  
                { return jt; }
                |  
                jt = Vector()  
                { return jt; }
                |  
                <BYTE_TKN>  
                { return new JByte(); }
                |  
                <BOOLEAN_TKN>  
                { return new JBoolean(); }
                |  
                <INT_TKN>  
                { return new JInt(); }
                |  
                <LONG_TKN>  
                { return new JLong(); }
                |  
                <FLOAT_TKN>  
        ```
{ return new JFloat(); }<DOUBLE_TKN>
{ return new JDouble(); }
<USTRING_TKN>
{ return new JString(); }
<BUFFER_TKN>
{ return new JBuffer(); }

rname = ModuleName()
{
    if (rname.indexOf('.', 0) < 0) {
        rname = curModuleName + "." + rname;
    }

    JRecord r = recTab.get(rname);
    if (r == null) {
        System.out.println("Type " + rname + " not known. Exiting.");
        System.exit(1);
    }
    return r;
}

JMap Map() :
{
    JType jt1;
    JType jt2;
}
{
    <MAP_TKN>
    <LT_TKN>
    jt1 = Type()
    <COMMA_TKN>
    jt2 = Type()
    <GT_TKN>
    { return new JMap(jt1, jt2); }
}

JVector Vector() :
{
    JType jt;
}
{
    <VECTOR_TKN>
    <LT_TKN>
    jt = Type()
    <GT_TKN>
    { return new JVector(jt); }
}
Found in path(s):
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/rcc.jj
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  jar/org/apache/jute/compiler/generated/RccConstants.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/Rcc.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/ParseException.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/TokenMgrError.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/SimpleCharStream.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/RccTokenManager.java
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  jar/org/apache/zookeeper/proto/ConnectRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/GetChildrenResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/ErrorResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/WatcherEvent.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/GetSASLRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/SetACLResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/SetDataRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/GetAllChildrenNumberResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/SyncRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/TxnHeader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/CreateTTLRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/AuthPacket.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/Create2Response.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/GetDataRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/ExistsRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/server/persistence/FileHeader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/data/ACL.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/GetACLResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/zookeeper/proto/SetACLRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/SetSASLRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/txn/CreateTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/CheckVersionRequest.java

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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/Utils.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/CSharpGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JRecord.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/CppGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JInt.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JMap.java
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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/package.html

1.1107 Jackson-datatype-joda 2.4.5

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Metadata-Version: 1.0
Name: pyvim
Version: 3.0.2
Summary: Pure Python Vi Implementation
Home-page: https://github.com/jonathanslenders/pyvim
Author: Jonathan Slenders
Author-email: UNKNOWN
License: LICENSE
Description: pyvim

*An implementation of Vim in Python*

```
pip install pyvim
```

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/welcome-screen.png

Issues, questions, wishes, comments, feedback, remarks? Please create a GitHub issue, I appreciate it.

[Build Status]

Installation

--------

Simply install `pyvim` using pip:

```

pip install pyvim
```

It is a good idea to add the following to your `~/.bashrc` if you really want to use it:

```

alias vi=pyvim
```
The good things
---------------

The editor is written completely in Python. (There are no C extensions). This makes development a lot faster. It's easy to prototype and integrate new features.

We have already many nice things, for instance:

- Syntax highlighting of files, using the Pygments lexers.

- Horizontal and vertical splits, as well as tab pages. (Similar to Vim.)

- All of the functionality of `prompt_toolkit` [http://github.com/jonathanslenders/python-prompt-toolkit]`. This includes a lot of Vi key bindings, it's platform independent and runs on every Python version from python 2.6 up to 3.4. It also runs on Pyp with a noticable performance boost.

- Several `:` commands have been implemented, like `incsearch`, `number`, `ignorecase`, `wildmenu`, `expandtab`, `hlsearch`, `ruler`, `paste` and `tabstop`.

- Other working commands: `vsplit`, `tabnew`, `only`, `badd`, and many others.

- For Python source code, auto completion uses the amazing Jedi library, and code checking in done (asynchronously) through Pyflakes.

- Colorschemes can be changed at runtime.

Further, when the project develops, it should also become possible to write extensions in Python, and use Python as a scripting language. (Instead of vimscript, for instance.)

We can also do some cool stuff. Like for instance running the editor on the Python asyncio event loop and having other coroutines interact with the editor.

Some more screenshots
----------------------

Editing its own source code:

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/editing-pyvim-source.png
Window layouts (horizontal and vertical splits + tab pages.)

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/window-layout.png

Pyflakes for Python code checking and Jedi for autocompletion:

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/pyflakes-and-jedi.png

Other colorschemes:

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/colorschemes.png

Chinese and Japanese input (double width characters):

.. image :: https://raw.githubusercontent.com/jonathanslenders/pyvim/master/docs/images/cjk.png?v2

Configuring pyvim

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

It is possible to create a `~/.pyvimrc` file for a custom configuration. Have a look at this example: `~/.pyvimrc`  

Limitations

-------

Compared to Vi Improved, Pyvim is still less powerful in many aspects.

- `~/.prompt_toolkit` does not (or not yet) allow buffers to have an individual cursor when buffers are opened in several windows. Currently, this results in some unexpected behaviour, when a file is displayed in two windows at the same time. (The cursor could be displayed in the wrong window and other windows will sometimes scroll along when the cursor moves.) This has to be fixed in the future.
- The data structure for a buffer is extremely simple. (Right now, it's just a Python string, and an integer for the cursor position.) This works extremely well for development and quickly prototyping of new features, but it comes with a performance penalty. Depending on the system, when a file has above a thousand lines and syntax highlighting is enabled, editing will become noticable slower. (The bottleneck is probably the `~/.BufferControl` code, which on every key press tries to reflow the text and calls pygments for highlighting. And this is Python code looping through single characters.)
- A lot of nice Vim features, like line folding, macros, etcetera are not yet implemented.
- Windows support is not that nice. It works, but could be improved. (I think
most Windows users are not that interested in this project, but prove me wrong.)

Roadmap
-------

There is no roadmap. I mostly implement the stuff which I need or interests me, or which gives me the opportunity to learn. But feel free to create a GitHub issue to request a new feature. Pull requests are also welcome. (Maybe create an issue first to discuss it, if you're unsure whether I'll merge it.)

Maybe some day we will have a better data structure (Rope), that makes it possible to open really large files. (With good algorithms, Python does not have to be slower than C code.)

Maybe we will also have line folding and probably block editing. Maybe some day we will have a built-in Python debugger or mouse support. We'll see. :)

Testing
-------

To run all tests, install pytest:

    pip install pytest

And then run from root pyvim directory:

    py.test

To test pyvim against all supported python versions, install tox:

    pip install tox

And then run from root pyvim directory:

    tox

You need to have installed all the supported versions of python in order to run tox command successfully.

Why did I create Pyvim?
-----------------------

There are several reasons.
The main reason is maybe because it was a small step after I created the Python ``prompt-toolkit`` library. That is a library which is actually only a simply pure Python readline replacement, but with some nice additions like syntax highlighting and multiline editing. It was never intended to be a toolkit for full-screen terminal applications, but at some point I realised that everything we need for an editor was in there and I liked to challenge its design. So, I started an editor and the first proof of concept was literally just a few hundred lines of code, but it was already a working editor.

The creation of ``pyvim`` will make sure that we have a solid architecture for ``prompt-toolkit``, but it also aims to demonstrate the flexibility of the library. When it makes sense, features of ``pyvim`` will move back to ``prompt-toolkit``, which in turn also results in a better Python REPL. (see `ptpython <https://github.com/jonathanslenders/ptpython>`_, an alternative REPL.)

Above all, it is really fun to create an editor.

Alternatives
-------------

Certainly have a look at the alternatives:

- Kaa: https://github.com/kaaedit/kaa by @atsuoishimoto
- Vai: https://github.com/stefanoborini/vai by @stefanoborini
- Vis: https://github.com/martanne/vis by @martanne

Q & A:
------

Q
Do you use curses?
A
No, it uses only ``prompt-toolkit``.

Thanks
------

- To Vi Improved, by Bram Moolenaar. For the inspiration.
- To Jedi, pyflakes and the docopt Python libraries.
- To the Python wcwidth port of Jeff Quast for support of double width characters.
- To Guido van Rossum, for creating Python.

.. |Build Status| image:: https://api.travis-ci.org/jonathanslenders/pyvim.svg?branch=master
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1156368150_1619186015.98/0/pyvim-3-0-2-1-tar-gz/pyvim-3.0.2/pyvim.egg-info/PKG-INFO
* /opt/cola/permits/1156368150_1619186015.98/0/pyvim-3-0-2-1-tar-gz/pyvim-3.0.2/PKG-INFO

1.1109 jackson 2.10.3
1.1109.1 Available under license:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.salaranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1110 libjpeg8-empty 8c-2ubuntu8
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1.1111 stax 3.1.4
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/dom/DOMWrappingWriter.java
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2WriterImpl.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2ReaderImpl.java
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/typed/CharArrayBase64Decoder.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/typed/NumberUtil.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/typed/StreamWriterDelegate.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/typed/Base64Variants.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/XMLStreamReader2.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/TypedXMLStreamReader.java

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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/typed/AsciiValueEncoder.java

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1.1112 ip-address 1.0.22

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1.1114 nghttp2 1.42.0
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1.1115 zeromq 3.2.2
1.1115.1 Available under license:

wepoll - epoll for Windows
https://github.com/piscisaureus/wepoll

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/**
   * Creates a new JSRInliner. <i>Subclasses must not use this</i> constructor
   * Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   * the <code>MethodVisitor</code> to send the resulting inlined
   * method code to (use <code>null</code> for none).
   * @param access
   * the method's access flags (see {@link Opcodes}). This
   * parameter also indicates if the method is synthetic and/or
   * deprecated.
   * @param name
   * the method's name.
   * @param desc
   * the method's descriptor (see {@link Type}).
   * @param signature
   * the method's signature. May be <tt>null</tt>.
   * @param exceptions
   * the internal names of the method's exception classes (see
   * {@link Type#getInternalName() getInternalName}). May be
   * <tt>null</tt>.
   * @throws IllegalStateException
   * If a subclass calls this constructor.
   */

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/**
 * Creates a new [@link GeneratorAdapter]. &lt;i&gt;Subclasses must not use this
 * constructor&lt;/i&gt;. Instead, they must use the
 * [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see [@link Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [@link Type Type]).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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*/
/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
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 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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*/
/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link ClassNode(int)}
 * version.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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 */
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
* not use this constructor. Instead, they must use the
* { @link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
* version.
*
* @param typeRef
* a reference to the annotated type. See { @link TypeReference}.
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start
* the fist instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Shrinker.java
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* /
**
* Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
* version.
*
* @param owner
*    the owner's class name.
* @param access
*    the method's access flags (see [@link Opcodes]).
* @param name
*    the method's name.
* @param desc
*    the method's descriptor (see [@link Type Type]).
* @param mv
*    the method visitor to which this adapter delegates calls. May
*    be <tt>null</tt>.
* @throws IllegalStateException
*    If a subclass calls this constructor.
*/

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Tests included here are based on build output generated by the six-speed benchmark suite.

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Email local part: ph10
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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
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created specifically to own Python-related Intellectual Property.
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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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<td>2001</td>
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<td>no</td>
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<tr>
<td>2.1.2</td>
<td>2.1.1</td>
<td>2002</td>
<td>PSF</td>
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1.1138 kr-fs
1455def202f6e05b95cc7bfc7e8ae67ae5141eba

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1.1139 x-sys 0.0.0-20210330210617-4fbd30eecc44

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**1.1141 idna 2.10**

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Found in path(s):
* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-
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.

```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',
            'Programming Language :: Python :: 3.7',
```
1.1142 jsr305 1.3.7

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* /opt/cola/permits/1001166424_1608115822.07/0/gson-2-3-1-sources-2-jar/com/google/gson/JsonSyntaxException.java

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### 1.1156 libmongo-client 0.1.8 2

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  */opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/pool/package-info.java
  */opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
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/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline}.
*
* <h3>Sub-types</h3>
* <p>
* { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li> { @link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li> { @link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li> { @link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li> { @link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li> { @link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* 
* For more information, please refer to the documentation of each subtype.
* <h3>The context object</h3>

* A `@link ChannelHandler` is provided with a `@link ChannelHandlerContext` object. A `@link ChannelHandler` is supposed to interact with the `@link ChannelPipeline` it belongs to via a context object. Using the context object, the `@link ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `@link AttributeKey`)s which is specific to the handler.

* <h3>State management</h3>

* A `@link ChannelHandler` often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* 
* ```java
public interface Message {
    // your methods here
}
```

* ```java
public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    // Create a new handler instance per channel.
    // See `@link ChannelInitializer#initChannel(Channel)`.

    public class DataServerInitializer extends @link ChannelInitializer {@link Channel} {
```
```java
* { @code @Override }
* public void initChannel(@link {Channel} channel) {
*     channel.pipeline().addLast("handler", new DataServerHandler());
* }
* }
* }
* </pre>
* 
* <h4>Using @link {AttributeKey}es</h4>
* 
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use @link {AttributeKey}es which is provided by
* @link {ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
* }
* }
* 
* { @code @Sharable }
* public class DataServerHandler extends @link {SimpleChannelInboundHandler}<{Message}> {
*     private final @link {AttributeKey}&lt;{Boolean}&gt; auth = 
*         @link {AttributeKey}.valueOf(String).AttributeKey.valueOf("auth");
* }
* { @code @Override }
* public void channelRead(@link {ChannelHandlerContext} ctx, Message message) {
*     @link {Attribute}&lt;{Boolean}&gt; attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) o);
*         attr.set(true);
*     } else (message instanceof GetDataMessage) {
*         if (@b>Boolean.TRUE.equals(attr.get())@b>) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*         } else {
*             fail();
*         }
*     }
* ... 
* }
* }
* </pre>
* Now that the state of the handler is attached to the @link {ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends @link {ChannelInitializer}<{Channel}> {
*     private static final DataServerHandler SHARED = new DataServerHandler();
*     
```
```java
@Override
public void initChannel(@link Channel) channel) {
    channel.pipeline().addLast("handler", <b>SHARED</b>);
}
```

* <h4>The <code>@Sharable</code> annotation</h4>
* In the example above which used an <code>@link AttributeKey</code>,
* you might have noticed the <code>@code @Sharable</code> annotation.
* If a <code>@link ChannelHandler</code> is annotated with the <code>@code @Sharable</code>
* annotation, it means you can create an instance of the handler just once and
* add it to one or more <code>@link ChannelPipeline</code>s multiple times without
* a race condition.
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* This annotation is provided for documentation purpose, just like
* <h3>Additional resources worth reading</h3>
* Please refer to the <code>@link ChannelHandler</code>, and
* <code>@link ChannelPipeline</code> to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/internal/package-info.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelInboundInvoker.java
*
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/SelectStrategy.java
*
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/SelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelOutboundInvoker.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/group/VoidChannelGroupFuture.java
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  jar/io/netty/channel/EventLoopTaskQueueFactory.java
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  jar/io/netty/channel/ExtendedClosedChannelException.java

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1.1161 ubuntu-keyring 2018.09.18.1~18.04.2

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1.1163 python-pip 8.1.1 2ubuntu0.4

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1.1164 structured-merge-diff 4.1.0

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1.1165 httpasyncclient 4.1.2

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes.  The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1173 nvme-cli 0.5-1ubuntu0.1

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Upstream Authors:

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Berkeley Mail was (according to def.h) developed by Kurt Shoens, dated March 25, 1978. I very much regret that it seems impossible to include the people that contributed within the around fifteen years of history of BSD Mail. If you know more about this, contact me.

After the 4.4BSD release in 1993, Mail was not further developed officially. The code that Heirloom mailx is based on contains numerous patches from OpenBSD, NetBSD, RedHat and Debian. Namely the NetBSD developer Christos Zoulas wrote much of it.

The maintainer and primary developer of Heirloom mailx is Gunnar Ritter. Its development started under the name "nail" in February 2000 and added especially the MIME code, network protocol support, and POSIX conformance improvements. In March 2006, the program has been integrated into the Heirloom project.

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imap_gssapi.h, smtp_gssapi.h:
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/*
 * GSS-API Programming Guide
 * Part No: 816-1331-11
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Network Working Group  H. Krawczyk
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1.1175 libevent 2.1.8

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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
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1.1188 kubernetes-csi-external-resizer 1.2.0

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Protocol Buffers for Go with Gadgets

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

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

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1.1195 core-util-is 2.12-17.10.0

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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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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.

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*/

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

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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

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

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

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

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

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

image:$(BSD_LIB)

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

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

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 13422
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(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 $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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1.1210 openssh 7.2p2

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 * in C (faster - it is executed many times during system startup).
 * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.1234 strace 4.11 1ubuntu3

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Douglas Gilbert
10th April 2012

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* represent devices that understand the SCSI command set.
* 
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This program is a specialisation of the Unix "dd" command in which
either the input or the output file is a scsi generic device, raw
device, a block device or a normal file. The block size ('bs') is
assumed to be 512 if not given. This program complains if 'ibs' or
'obs' are given with a value that differs from 'bs' (or the default 512).
If 'if' is not given or 'if=-' then stdin is assumed. If 'of' is
not given or 'of=-' then stdout assumed.

A non-standard argument "bpt" (blocks per transfer) is added to control
the maximum number of blocks in each transfer. The default value is 128.
For example if "bs=512" and "bpt=32" then a maximum of 32 blocks (16 KiB
in this case) is transferred to or from the sg device in a single SCSI
command. The actual size of the SCSI READ or WRITE command block can be
selected with the "cdbsz" argument.

This version is designed for the linux kernel 2.4, 2.6 and 3 series.
*/

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1.1250 c-ares 1.23.2

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1.1251 xz 5.1.1alpha+20120614 2ubuntu2
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==================

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1.1252 sudo 1.8.16-0ubuntu1.10
1.1252.1 Available under license:

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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
ek, Vtzslav
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
Fryisinger, 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
The following people have worked to translate sudo into other languages:

- Blttermann, Mario
- Bogusz, Jakub
- Casagrande, Milo
- Castro, Felipe
- Chornoivan, Yuri
- Diguez, Francisco
- Ferreira, Rafael
- Garca-Fontes, Walter
- Gezer, Volkan
- Hamasaki, Takeshi
- Hamming, Peter
- Hansen, Joe
- Hantrais, Frdric
- Hein, Jochen
- Jerovek, Damir
- Karvonen, Jorma
- Kazik, Duan
- Kelemen, Gbor
- Koir, Klemen
- Kozlov, Yuri
- Kramer, Jakob
- Krznar, Tomislav
- Marchal, Frdric
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Found in path(s):
* /opt/cola/permits/1129088738_1612176113.84/0/jnr-constants-0-8-6-
tar/main/java/com/kenai/constantine/ConstantSet.java
* /opt/cola/permits/1129088738_1612176113.84/0/jnr-constants-0-8-6-
tar/main/java/com/kenai/constantine/Constant.java
* /opt/cola/permits/1129088738_1612176113.84/0/jnr-constants-0-8-6-
tar/main/java/jnr/constants/Constant.java
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tar/main/java/jnr/constants/Platform.java
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tar/main/java/com/kenai/constantine/platform/ConstantResolver.java
* /opt/cola/permits/1129088738_1612176113.84/0/jnr-constants-0-8-6-
tar/main/java/jnr/constants/platform/ConstantResolver.java
* /opt/cola/permits/1129088738_1612176113.84/0/jnr-constants-0-8-6-
tar/main/java/jnr/constants/ConstantSet.java
* /opt/cola/permits/1129088738_1612176113.84/0/jnr-constants-0-8-6-
tar/main/java/jnr/constants/platform/ConstantResolver.java

1.1256 jq 1.5+dfsg 2
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## Source Code
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* https://github.com/eclipse-ee4j/jaxrs-api

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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-URL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";
result:=optional,org.eclipse.jetty.alpn;version="[1,2)";
Export-Package: io.netty.internal.tcnative;version="2.0.30.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=macosx;processor=x86_64
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* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
  jar/org/springframework/core/convert/support/CollectionToStringConverter.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
  jar/org/springframework/core/env/SimpleCommandLinePropertySource.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
  jar/org/springframework/core/env/MissingRequiredPropertiesException.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
  jar/org/springframework/core/convert/support/StringToBooleanConverter.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
  jar/org/springframework/core/env/CommandLineArgs.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
  jar/org/springframework/core/convert/support/AbstractDescriptor.java
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jar/org/springframework/core/env/PropertySourcesPropertyResolver.java

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jar/org/springframework/core/env/PropertySourcesPropertyResolver.java

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jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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

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Prometheus instrumentation library for Go applications

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' #
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' PORTNAME'    Name.Variable
' ='           Operator
' "'     Text
' python25'    Text
' "'     Text

' PORTVERSION' Name.Variable
' ='           Operator
' "'     Text
' "'     Text
' 2'           Literal.Number
' ".5.1'        Text
' "'     Text

' CATEGORIES' Name.Variable
' ='           Operator
' "'     Text
' "'     Text
' "'     Text
' python'    Text
'ipv6' Text
'un' Text

'MASTER_SITES' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PYTHON_MASTER_SITES' Name.Variable
'}' Literal.String.Interpol
'un' Text

'MASTER_SITE_SUBDIR' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PYTHON_MASTER_SITE_SUBDIR' Name.Variable
'}' Literal.String.Interpol
'un' Text

'DISTFILES' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PYTHON_DISTFILE' Name.Variable
'}' Literal.String.Interpol
'un' Text

'un' Text

'MAINTAINER' Name.Variable
'=' Operator
'\t' Text
'python@FreeBSD.org' Text
'un' Text

'COMMENT' Name.Variable
'=' Operator
'\t' Text
'An' Text
'interpreted' Text
'object-oriented' Text
'programming' Text
'language' Text
`DIST_SUBDIR' Name.Variable
`=' Operator
`\t' Text
`python' Text
`\n' Text

`WRKSRC' Name.Variable
`=' Operator
`\"\" Text
`${' Literal.String.Interpol
`PYTHON_WRKSRC' Name.Variable
`} Literal.String.Interpol
`/portbld.static' Text
`\n' Text

`PATCH_WRKSRC' Name.Variable
`=' Operator
`\" Text
`${' Literal.String.Interpol
`PYTHON_WRKSRC' Name.Variable
`} Literal.String.Interpol
`\n' Text

`GNU_CONFIGURE' Name.Variable
`=' Operator
`\t' Text
`yes' Text
`\n' Text

`CONFIGURE_TARGET' Name.Variable
`=' Operator
`\t' Text
`--build' Text
`=' Operator
`${' Literal.String.Interpol
`MACHINE_ARCH' Name.Variable
`} Literal.String.Interpol
`-portbld-freebsd' Text
`${' Literal.String.Interpol
`OSREL' Name.Variable
`} Literal.String.Interpol
`\n' Text

`CONFIGURE_SCRIPT' Name.Variable
# must be relative

```bash
'CONFIGURE_ENV' Name.Variable
'=' Operator
'@' Text

'OPT' Name.Variable
'=' Operator

'${CFLAGS}' Literal.String.Interpol

'SVNVERSION' Name.Variable
'=' Operator

'echo freebsd' Literal.String.Double

'MAKE_ENV' Name.Variable
'=' Operator

'VPATH' Name.Variable
'=' Operator

'${PYTHON_WRKSRC}' Literal.String.Interpol

'INSTALLS_SHLIB' Name.Variable
'=' Operator

'yes' Text

'INSTALL_TARGET' Name.Variable
'=' Operator

'altinstall' Text

'MAN1' Name.Variable
'=' Operator
```
'PYTHON_VERSION' Name.Variable
'=' Operator
'un' Text

'USE_PYTHON' Name.Variable
'=' Operator
'yes' Text

'PYTHON_VERSION' Name.Variable
'=' Operator
'un' Text

'PYTHON_NO_DEPENDS' Name.Variable
'=' Operator
'un' Text

'SHARED_WRKSRC' Name.Variable
'=' Operator
'un' Text

'PLIST' Name.Variable
'=' Operator
'un' Text

'PLIST_TEMPLATE' Name.Variable
"?="  Operator
'S{'}  Literal.String.Interpol
'PKGDIR'  Name.Variable
')'  Literal.String.Interpol
'/pkg-plist'  Text
'un'  Text

'PLIST_SUB'  Name.Variable
'?='  Operator
'un'  Text
'PYVER'  Name.Variable
'?='  Operator
'$('  Literal.String.Interpol
'PYTHON_VERSION'  Name.Variable
':'  Punctuation
'S'  Name.Variable
'}/python//'  Punctuation
'}}  Literal.String.Interpol
'\n'  Literal.String.Escape

'un'  Text
'PYVER_WITHPAT'  Name.Variable
'?='  Operator
'$('  Literal.String.Interpol
'PORTVERSION'  Name.Variable
':.'  Punctuation
'S'  Name.Variable
'}/.c/c/'  Punctuation
'}}  Literal.String.Interpol
'un'  Text

'DEMODIR'  Name.Variable
'?='  Operator
'un'  Text
'$('  Literal.String.Interpol
'PREFIX'  Name.Variable
')'  Literal.String.Interpol
'/share/examples/'  Text
'$('  Literal.String.Interpol
'PYTHON_VERSION'  Name.Variable
')'  Literal.String.Interpol
'un'  Text

'TOOLSDIR'  Name.Variable
'?='  Operator
'un'  Text
'$('  Literal.String.Interpol
'PREFIX'     Name.Variable
'}'           Literal.String.Interpol
'/share/'     Text
'S{'}        Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'un'         Text
'un'         Text

'BIN_SCRIPTS' Name.Variable
'='           Operator
'\t'          Text
'idle'       Text
''           Text
'pydoc'      Text
''           Text
'python'     Text
''           Text
'python-shared' Text
''           Text
'smtpd.py'  Text
''           Text
'python-config' Text
''           Text
'\\n'        Literal.String_ESCAPE
'\t\t'        Text
'python-shared-config' Text
'un'         Text

'BINLINKS_SUB' Name.Variable
'='           Operator
'\t'          Text
'-e'          Text
'\t'          Text
"s.smtpd.smtpd$\{PYTHON_VER\},'" Literal.String.Single
'\n'          Literal.String.Escape
'\t\t'        Text
'-e'          Text
'\t'          Text
"s.(idle|pydoc|python-shared|python),$\{PYTHON_VER\},'" Literal.String.Single
'un\n'        Text

'OPTIONS'     Name.Variable
'='           Operator
'\t' Text
'THREADS' Text
' ' Text
"Enable thread support" Literal.String.Double
' ' Text
'on' Text
' ' Text
'\n' Literal.String.Escape

'\tt' Text
'HUGE_STACK_SIZE' Text
' ' Text
"Use a larger thread stack" Literal.String.Double
' ' Text
'off' Text
' ' Text
'\n' Literal.String.Escape

'\tt' Text
'UCS4' Text
' ' Text
"Use UCS4 for unicode support" Literal.String.Double
' ' Text
'on' Text
' ' Text
'\n' Literal.String.Escape

'\tt' Text
'PYMALLOC' Text
' ' Text
"Use python\'s internal malloc" Literal.String.Double
' ' Text
'on' Text
' ' Text
'\n' Literal.String.Escape

'\tt' Text
'IPV6' Text
' ' Text
"Enable IPv6 support" Literal.String.Double
' ' Text
'on' Text
' ' Text
'\n' Literal.String.Escape

'\tt' Text
'FPECTL' Text
' ' Text
"Enable floating point exception handling" literal.String.Double
  ' ' Text
  'off' Text
  'un\n' Text

'.include <bsd.port.pre.mk>\n' Comment.Precproc

'\n' Text

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Precproc

'MLINKS' Name.Variable
  '=' Operator
  '\\t' Text
  '${' Literal.String.Interpol
  PYTHON_VERSION Name.Variable
  '}' Literal.String.Interpol
  '.' Text
  ' ' Text
  'python.1' Text
  'un' Text

'PLIST_SUB' Name.Variable
  '+=' Operator
  '\\t' Text
  'IF_DEFAULT' Name.Variable
  '=' Operator
  '\'' Literal.String.Double
  'un' Text

'.else\n' Comment.Precproc

'PLIST_SUB' Name.Variable
  '+=' Operator
  '\\t' Text
  'IF_DEFAULT' Name.Variable
  '=' Operator
  '"@comment '" Literal.String.Double
  'un' Text

'.endif\n' Comment.Precproc

'\n' Text

'# workaround for a bug in base curses.h.\n' Comment

'CFLAGS' Name.Variable
  '+' Operator
`\'t\' Text
`\'-D__wchar_t\' Text
`\'=' Operator
`\'wchar_t\' Text
`\'un\' Text

`\'un\' Text

`.if !defined(WITHOUT_THREADS)\n' Comment.Preproc

`\'CONFIGURE_ARGS\' Name.Variable
`\'+=\' Operator
`\'un\' Text
`\'--with-threads\' Text
`\'un\' Text

`\'CFLAGS\' Name.Variable
`\'+=\' Operator
`\'un\' Text
`\'${\' Literal.String.Interpol
`\'PTHREAD_CFLAGS\' Name.Variable
`\'}\' Literal.String.Interpol
`\'un\' Text

`.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

`\'CFLAGS\' Name.Variable
`\'+=\' Operator
`\'un\' Text
`\'DTHREAD_STACK_SIZE\' Text
`\'=' Operator
`\'0x20000\' Text
`\'un\' Text

`.else\n' Comment.Preproc

`\'CFLAGS\' Name.Variable
`\'+=\' Operator
`\'un\' Text
`\'DTHREAD_STACK_SIZE\' Text
`\'=' Operator
`\'0x100000\' Text
`\'un\' Text

`.endif # defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

`\'CONFIGURE_ENV\' Name.Variable
`\'+=\' Operator
"\"\" Text
'LDFlags' Name.Variable
'=' Operator
"\"' Literal.String.Double
'${' Literal.String.Interpol
'PTHREAD_LIBS' Name.Variable
'\}' Literal.String.Interpol
' ' Literal.String.Double
'${' Literal.String.Interpol
'LDFlags' Name.Variable
'\}' Literal.String.Interpol
' ' Literal.String.Double
'\n' Text
.'else\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'\t' Text
'--without-threads' Text
'\n' Text
.'if defined(LDFlags)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+=' Operator
'\t' Text
'LDFlags' Name.Variable
'=' Operator
"\"' Literal.String.Double
'${' Literal.String.Interpol
'LDFlags' Name.Variable
'\}' Literal.String.Interpol
' ' Literal.String.Double
'\n' Text
.'endif # defined(LDFlags)\n' Comment.Preproc

.'endif # !defined(WITHOUT_THREADS)\n' Comment.Preproc

'\n' Text
.'if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'\t' Text
'--enable-unicode' Text
'.=' Operator
'ucs4' Text
'\n' Text

'.endif' Comment.Preproc

'\n' Text

'.if defined(WITHOUT_PYMALLOC)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
' ' Text
'--without-pymalloc' Text
'\n' Text

'.endif' Comment.Preproc

'\n' Text

'.if ${ARCH} == i386\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text
'X86_ONLY' Name.Variable
'=' Operator
'""Literal.String.Double
'\n' Text

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text
'X86_ONLY' Name.Variable
'=' Operator
'"@comment ""Literal.String.Double
'\n' Text

'.endif' Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text
'32BIT_ONLY' Name.Variable
`un'  Text

`.endif
' Comment.Preproc

`un'  Text

`.if !defined(WITHOUT_IPV6)un' Comment.Preproc

`CONFIGURE_ARGS' Name.Variable
`+='  Operator
' '  Text
`--enable-ipv6' Text
`un'  Text

`.else
' '  Text

`CONFIGURE_ARGS' Name.Variable
`+='  Operator
' '  Text
`--disable-ipv6' Text
`un'  Text

`.endif
' Comment.Preproc

`un'  Text

`.if defined(WITH_FPECTL)un' Comment.Preproc

`CONFIGURE_ARGS' Name.Variable
`+='  Operator
' '  Text
`--with-fpectl' Text
`un'  Text

`.endif
' Comment.Preproc

`un'  Text

`.if ${OSVERSION} >= 70000un' Comment.Preproc

`PLATFORMS' Name.Variable
`='  Operator
`plat-freebsd4' Text
' '  Text
`plat-freebsd5' Text
' '  Text
`plat-freebsd6' Text
`un'  Text
'elif $\{\text{OSVERSION}\} >= 600000$

'PLATFORMS' Name.Variable
  '=' Operator
  'plat-freebsd4' Text
  '' Text
  'plat-freebsd5' Text
  '' Text
  'plat-freebsd7' Text
  'un' Text

'.else
  'PLATFORMS' Name.Variable
  '=' Operator
  'plat-freebsd4' Text
  '' Text
  'plat-freebsd6' Text
  '' Text
  'plat-freebsd7' Text
  'un' Text

'.endif

.pre-patch' Name.Function
  ':' Operator
  'un' Text

't' Text
'
$\{$MKDIR\}' Name.Variable
'
$\{$SHARED_WRKSR\}' Name.Variable
'
$\{$SHARED_WRL\}' Name.Variable
'
$\{$SHARED_WRKSR\}' Name.Variable

'./Modules' Text
'un't Text
'
$\{$SED\}' Name.Variable
'
$\{$SED\}' Name.Variable
"1s:^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION}," Literal.String.Single

'\n' Literal.String.Escape

'\n' Text
"{$' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Tools/scripts/pydoc' Text

'>' Text

'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/pydoc2.5' Text

'\n\n' Literal.String.Escape

'\n' Text
"{$' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'-e' Text

"1s:^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION}," Literal.String.Single

'\n' Literal.String.Escape

'\n' Text
"{$' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Tools/scripts/idle' Text

'>' Text

'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/idle2.5' Text

'\n\n' Literal.String.Escape

'\n' Text
"{$' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'-e' Text
```
\n'\n' Text
'${' Literal.String.Interpol
'PATCH_WRKsrc' Name.Variable
'}' Literal.String.Interpol
'/Lib/site.py' Text
'\n' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
' -e' Text
' ' Text
'${' Literal.String.Interpol
'PATCH_WRKsrc' Name.Variable
'}/Makefile.pre.in' Text
'\n' Literal.String.Escape
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
' -e' Text
' ' Text
'${' Literal.String.Interpol
'PATCH_WRKsrc' Name.Variable
'}/Makefile.pre.in' Text
'\n' Literal.String.Escape
'${' Literal.String.Interpol
'SED' Name.Variable
'"s|^\(.*ASDLGEN.*\)$$|^${TRUE}|g"' Literal.String.Single
' ' Text
'\n' Literal.String.Escape
'${' Literal.String.Interpol
'SED' Name.Variable
'"s|^\(.*INSTALL_SCRIPT.*\)python-config$$|^#port \1|g"' Literal.String.Single
' ' Text
'\n' Literal.String.Escape
'${' Literal.String.Interpol
'PATCH_WRKsrc' Name.Variable
'}' Literal.String.Interpol
'/Makefile.pre.in' Text
'\n' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
' ' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'"s|\(.*INSTALL_SCRIPT.*\)python-config$$|^#port \1|g"' Literal.String.Single
' ' Text
'\n' Literal.String.Escape
'${' Literal.String.Interpol
'PATCH_WRKsrc' Name.Variable
'}' Literal.String.Interpol
'/Makefile.pre.in' Text
'\n' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'
```

'PYTHON_VERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/thon/thon-shared/' Punctuation
'} Literal.String.Interpol
'-config' Text
'un' Text

'.if defined(WITH_FPECTL) && ${ARCH} == i386
	${' Literal.String.Interpol
'MKDIR' Name.Variable
'} Text
${'} Literal.String.Interpol
'WRKSRC' Name.Variable
'} Literal.String.Interpol
'/Modules' Text
'un'

's}' Literal.String.Interpol
'ECHO' Name.Variable
'} Text
"fpectl fpectlmodule.c" Literal.String.Double
'>>' Text
' ' Text
's}' Literal.String.Interpol
'WRKSRC' Name.Variable
'} Literal.String.Interpol
'/Modules/Setup.dist' Text
'un'

'.endif
'

'post-configure' Name.Function
': Operator
'un'

't' Text
's}' Literal.String.Interpol
'TAR' Name.Variable
'} Literal.String.Interpol
' ' Text
'-' Text
```

'  Text
'${'  Literal.String.Interpol
'WRKSRC'  Name.Variable
'}'  Literal.String.Interpol
  Text
' -cf'  Text
  Text
' -'  Text
  Text
' -'  Text
  Text
' -'  Text
  Text
[  Punctuation
  Text
'${'  Literal.String.Interpol
'TAR'  Name.Variable
'}'  Literal.String.Interpol
  Text
' -C'  Text
  Text
'${'  Literal.String.Interpol
'SHARED_WRKSRC'  Name.Variable
'}'  Literal.String.Interpol
  Text
' -xf'  Text
  Text
' -'  Text
'un't'  Text
'${'  Literal.String.Interpol
'LN'  Name.Variable
'}'  Literal.String.Interpol
  Text
' -sf'  Text
  Text
'${'  Literal.String.Interpol
'PYTHON_WRKSRC'  Name.Variable
'}'  Literal.String.Interpol
'Lib'  Text
  Text
'${'  Literal.String.Interpol
'WRKSRC'  Name.Variable
'}'  Literal.String.Interpol
'Lib'  Text
'un't'  Text
'${'  Literal.String.Interpol
'SED'  Name.Variable
'}'  Literal.String.Interpol
  Text
' -e'  Text
```
'${'   Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'   Literal.String.Interpol
'/Makefile'   Text
'

'pre-build'   Name.Function
'.'   Operator
'
't'   Text
'cd'   Name.Builtin
' '   Text
'${'   Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'   Literal.String.Interpol
'.'   Punctuation
' '   Text
'\\n'   Literal.String.Escape
'
't'   Text
'${'   Literal.String.Interpol
'SETENV'   Name.Variable
'}'   Literal.String.Interpol
' '   Text
'${'   Literal.String.Interpol
'MAKE_ENV' Name.Variable
'}'   Literal.String.Interpol
' '   Text
'${'   Literal.String.Interpol
'MAKE'   Name.Variable
'}'   Literal.String.Interpol
' '   Text
'lib'   Text
'${'   Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'   Literal.String.Interpol
'.'   Text
'.so'   Text
' '   Text
'python'   Text
'.'   Punctuation
' '   Text
'\\n'   Literal.String.Escape
'
't'   Text
'${'   Literal.String.Interpol
'LN'   Name.Variable
'}'   Literal.String.Interpol
'\n' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so' Text
'\n' Literal.String.Escape

'\n' Text
'${' Literal.String.Interpol
'LN' Name.Variable
'}' Literal.String.Interpol
'\n' Text
'\n' Text
'python' Text
'\n' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'\n' Text
'\n' Text
'pre-su-install' Name.Function
'\n' Operator
'\n' Text

'.for platform in ${PLATFORMS}\n' Comment.Preproc

'\n' Text
'${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
'\n' Text
'${' Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}' Literal.String.Interpol
for file in IN.py regen
	${INSTALL_DATA} ${WRKSRC}/Lib/${platform}/${file}\n		${PYTHONPREFIX_LIBDIR}/${platform}/
.endfor
.endfor

pre-install:
'\n' Text
'${' Literal.String.Interpol
'CAT' Name.Variable
'|' Literal.String.Interpol
' ' Text
'${' Literal.String.Interpol
'PLIST_TEMPLATE' Name.Variable
'|' Literal.String.Interpol
' ' Text
'\n' Text
'${' Literal.String.Interpol
'AWK' Name.Variable
'|' Literal.String.Interpol
' ' Text
'\t\n\t\n\t\n\n'
"@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\n" Comment

'\n' Text
'|' Operator
'|' Operator
' ' Text
'\n' Text
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'|' Literal.String.Interpol
'\n\n\n\n' Text
'|' Operator
' ' Text
'\n' Text
'\n' Literal.String.Escape

'\n' Text
'${' Literal.String.Interpol
'GREP' Name.Variable
'|' Literal.String.Interpol
`@# install config providers

'`  Text
'S{`  Literal.String.Interpol
'INSTALL_SCRIPT` Name.Variable
'`  Literal.String.Interpol
'`  Text
'S{`  Literal.String.Interpol
'WRKDIR` Name.Variable
'`  Literal.String.Interpol
'`  Text
'S{`  Literal.String.Interpol
'PYTHON_VERSION` Name.Variable
'`  Literal.String.Interpol
'-config` Text
'`  Text
'S{`  Literal.String.Interpol
'PREFIX` Name.Variable
'`  Literal.String.Interpol
'`  Text
'S{`  Literal.String.Interpol
'WRKDIR` Name.Variable
'`  Literal.String.Interpol
'`  Text
'S{`  Literal.String.Interpol
'PYTHON_VERSION` Name.Variable
'`  Punctuation
'S`  Name.Variable
'/thon/thon-shared/' Punctuation
'`  Literal.String.Interpol
'-config` Text
'`  Text
'S{`  Literal.String.Interpol
'PREFIX` Name.Variable
'`  Literal.String.Interpol
'`  Text
'`  Text
'S{`  Literal.String.Interpol
'PREFIX` Name.Variable
'`  Literal.String.Interpol
'`  Text
'`  Text

`@# shared version of executable and library

'`  Text
'S{`  Literal.String.Interpol
'INSTALL_PROGRAM` Name.Variable
'`  Literal.String.Interpol
'`  Text
'S{`  Literal.String.Interpol
'PREFIX` Name.Variable
'`  Literal.String.Interpol
'`  Text
'`  Text
'S{`  Literal.String.Interpol
'PREFIX` Name.Variable
'`  Literal.String.Interpol
'`  Text
'`  Text

`@# shared version of executable and library

'`  Text
'S{`  Literal.String.Interpol
'INSTALL_PROGRAM` Name.Variable
'\"'  Literal.String.Interpol
'\'  Text
'${'  Literal.String.Interpol
'\"SHARED_WRKSR\"'  Name.Variable
'\'  Literal.String.Interpol
'\"/lib'  Text
'${'  Literal.String.Interpol
'\"PYTHON_VERSION'  Name.Variable
'\'  Literal.String.Interpol
'\".so.1'  Text
'\'  Text
'\n'  Literal.String.Escape

'dl'  Text
'${'  Literal.String.Interpol
'\"PREFIX'  Name.Variable
'\'  Literal.String.Interpol
'\"/lib'  Text
'un'  Text
'\"cd'  Name.Builtin
'\'  Text
'${'  Literal.String.Interpol
'\"PREFIX'  Name.Variable
'\'  Literal.String.Interpol
'\"/lib'  Text
'\'  Punctuation
'\'  Text
'${'  Literal.String.Interpol
'\"LN'  Name.Variable
'\'  Literal.String.Interpol
'\'  Text
'\"-sf'  Text
'\'  Text
'\"/lib'  Text
'${'  Literal.String.Interpol
'\"PYTHON_VERSION'  Name.Variable
'\'  Literal.String.Interpol
'\".so.1'  Text
'\'  Text
'\n'  Literal.String.Escape

'dl'  Text
'\"/lib'  Text
'${'  Literal.String.Interpol
'\"PYTHON_VERSION'  Name.Variable
'\'  Literal.String.Interpol
'\".so'  Text
'un'  Text
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@# additional files installing by ports

"${'LN'}" NAME_VARIABLE
'}" LITERAL_STRING_INTERPOL
'-sf' TEXT
"${'PREFIX'}" NAME_VARIABLE
'" Literal_String_Interpol
'/lib/lib' Text
"${'PYTHON_VERSION'}" NAME_VARIABLE
'" Literal_String_Interpol
'.so' Text
'" Literal_String_Interpol
'/config' Text
'\n' Text
"${'INSTALL_PROGRAM'}" NAME_VARIABLE
'" Literal_String_Interpol
'\n' Text
'\n' LITERAL_STRING_ESCAPE

'\n' Text
"${'SHARED_WKSRG'}" NAME_VARIABLE
'" Literal_String_Interpol
'/' Text
"${'PYTHON_VERSION'}" NAME_VARIABLE
'/' PUNCTUATION
'S' NAME_VARIABLE
'/thon/thon-shared/' PUNCTUATION
'" Literal_String_Interpol
'" LITERAL_STRING_ESCAPE

'\n' Text
"${'PREFIX'}" NAME_VARIABLE
'" Literal_String_Interpol
'/bin' Text
'\n' Text

@# additional files installing by ports\n' Comment
'\t'  Text
'${'  Literal.String.Interpol
'INSTALL_SCRIPT'  Name.Variable
'}'  Literal.String.Interpol
' '  Text
'${'  Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'  Literal.String.Interpol
'/pydoc2.5'  Text
' '  Text
'${'  Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'  Literal.String.Interpol
'/idle2.5'  Text
' '  Text
'\\n'  Literal.String.Escape

'\t\t'  Text
'${'  Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'  Literal.String.Interpol
'/smtpd2.5.py'  Text
' '  Text
'${'  Literal.String.Interpol
'PREFIX'  Name.Variable
'}'  Literal.String.Interpol
'/bin'  Text
'\n'  Text
'@'  Text
'${'  Literal.String.Interpol
'MKDIR'  Name.Variable
'}'  Literal.String.Interpol
' '  Text
'${'  Literal.String.Interpol
'MANPREFIX'  Name.Variable
'}'  Literal.String.Interpol
'/man/man1'  Text
'\n'  Text
'${'  Literal.String.Interpol
'INSTALL_MAN'  Name.Variable
'}'  Literal.String.Interpol
' '  Text
'${'  Literal.String.Interpol
'PYTHON_WRKSRC'  Name.Variable
'}'  Literal.String.Interpol
'/Misc/python.man'  Text
' '  Text
"\n" Literal.String.Escape

'\n' Text
'S{' Literal.String.Interpol
'MANPREFIX' Name.Variable
'}' Literal.String.Interpol
'/man/man1/' Text
'S{' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.1' Text

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'\n' Text
'for' Keyword
' ' Text
'f' Text
' ' Text
'in' Keyword
' ' Text
'S{' Literal.String.Interpol
'BIN_SCRIPTS' Name.Variable
'}' Literal.String.Interpol
'.' Punctuation
' ' Text
'do' Keyword
' ' Text
'\n' Literal.String.Escape

'\n' Text
'TARGET' Name.Variable
'=' Operator
' ' Literal.String.Backtick
'S{' Literal.String.Interpol
'ECHO_CMD' Name.Variable
'}' Literal.String.Interpol
' ' Text
'$$' Name.Variable
' ' Text
' ' Text
'|' Punctuation
' ' Text
'S{' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
' ' Text

`E`  Text
`'`  Text
`${' Literal.String.Interpol
'BINLINKS_SUB' Name.Variable
'}' Literal.String.Interpol
'`' Punctuation
'`' Text
`\\n` Literal.String.Escape

`"\" Text
`cd` Name.Builtin
`'` Text
`${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
`'` Text
'&&' Operator
`'` Text
`${' Literal.String.Interpol
'LN' Name.Variable
'}' Literal.String.Interpol
'`' Text
'-' Text
'`' Text
`"$` Name.Variable
'TARGET' Text
`'` Text
`"$` Name.Variable
'F' Text
`'` Punctuation
`'` Text
`\\n` Literal.String.Escape

'` Text
'done' Keyword
'un' Text

'.endif' Comment.Preproc

'un' Text

'.if !defined(NOPORTDOCS))\n' Comment.Preproc

'`' Text
'@' Text
'$' Literal.String.Interpol
'MKDIR' Name.Variable
'} Literal.String.Interpol
'' Text
'$' Literal.String.Interpol
'DEMODIR' Name.Variable
'} Literal.String.Interpol
'un\t' Text
'@cd' Text
'$' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'} Literal.String.Interpol
'/Demo' Text
'.' Punctuation
'' Text
'$' Literal.String.Interpol
'TAR' Name.Variable
'} Literal.String.Interpol
'' Text
'cf' Text
'' Text
'.' Text
'\n' Text
'\n' Literal.String.Escape
'' Text
'\t\t' Text
'(' Operator
'cd' Name.Builtin
'' Text
'$' Literal.String.Interpol
'DEMODIR' Name.Variable
'} Literal.String.Interpol
'' Text
'$' Literal.String.Interpol
'TAR' Name.Variable
'} Literal.String.Interpol
'' Text
'xf' Text
'' Text
'-' Text
'\’ Operator
'un' Text
1.1275 bouncy-castle 1.60

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1.1279 e2fsprogs 1.42.13 1ubuntu1.2

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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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===================================================================
--- 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

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- 
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Theodore Ts'o
23-June-2007

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

From the original distribution:

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

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

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

image::$(BSD_LIB)

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

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(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 $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

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

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Gadi Oxman, August 1995

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1.1282 alsa 1.1.0-0ubuntu1
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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 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.

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

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    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
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</xsl:variable>

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* /opt/cola/permits/1151111157_1617788599.59/0/netty-transport-native-epoll-4-1-47-final-sources-4-jar/io/netty/channel/epoll/Native.java
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*/
/**
 * Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

Found in path(s):
* /opt/cola/permits/1151111157_1617788599.59/0/netty-transport-native-epoll-4-1-47-final-sources-4-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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/netty/transport-native-epoll-4-1-47-final-sources-4.jar/io/netty/channel/epoll/LinuxSocket.java
/netty/transport-native-epoll-4-1-47-final-sources-4.jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
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Set the {TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a> for more details.
* /

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* /opt/cola/permits/1151111157_1617788599.59/0/netty-transport-native-epoll-4-1-47-final-sources-4-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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* /opt/cola/permits/1151111157_1617788599.59/0/netty-transport-native-epoll-4-1-47-final-sources-4-jar/io/netty/channel/epoll/EpollStreamChannel.java
* /opt/cola/permits/1151111157_1617788599.59/0/netty-transport-native-epoll-4-1-47-final-sources-4-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1151111157_1617788599.59/0/netty-transport-native-epoll-4-1-47-final-sources-4-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
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* /opt/cola/permits/1151111157_1617788599.59/0/netty-transport-native-epoll-4-1-47-final-sources-4-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
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* /opt/cola/permits/1151111157_1617788599.59/0/netty-transport-native-epoll-4-1-47-final-sources-4-
  jar/io/netty/channel/epoll/EpollSocketChannel.java
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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is ``<path>``
- Remote file format is `:`<pod-name>:<path>``

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is ``<path>``
- Remote file format is `:`<pod-name>:<path>``

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

1.1291 presentationframework 4.0.0.0

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Martin Richards
23 February 2007

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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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@end enumerate

@end enumerate

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to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

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

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

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

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

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

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

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That's all there is to it!
BEGIN{
  FS="\":
  print "/* ==> Do not modify this file!! It is created automatically*/
  print "by copying.awk. Modify copying.awk instead. <=*/
  print "
  print "#include "defs.h"
  print "#include "command.h"
  print "#include "gdbcmd.h"
  print "
  print "static void show_copying_command (char *, int);"
  print "
  print "static void show_warranty_command (char *, int);"
  print "
  print "void _initialize_copying (void);"
  print "
  print "extern int immediate_quit;"
  print "static void"
  print "show_copying_command (char *ignore, int from_tty);"
  print ";"
print "  immediate_quit++;";
}

NR == 1;/^[ ]*15\. Disclaimer of Warranty\[ ]*$/
if ($0 ~ //)
{
    printf "  printf_filtered ("\n\n\n";
}
else if ($0 !~ /^\[ ]*15\. Disclaimer of Warranty\[ ]*$/)
{
    printf "  printf_filtered ("\n";
    for (i = 1; i < NF; i++)
    printf "%%s\n", $i;
    printf "%%s\n\n", $NF;
}

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

END
print "  immediate_quit--;";
print ";
print "";
print "void"
print ":_initialize_copying (void)"
print ";
print "  add_cmd ("copying", no_class, show_copying_command,"
print "  	   _("Conditions for redistributing copies of GDB."),"
print "  	   &showlist);"
print "  add_cmd ("warranty", no_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 "\"}"
}

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SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
@end enumerate

@end iftex
@end info
@end page
@appendixsubsec 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.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{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 2.1 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:

@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

That's all there is to it!
#!/usr/bin/env python

```copyright.py```

This script updates most of the files that are not already handled
by copyright.sh. It must be run from the gdb/ subdirectory of the
GDB source tree.

```
import datetime
import re
import os
import os.path

class Comment(object):
    ```A class describing comment.

    Attributes:
    start: A string describing how comments are started.
    stop:  A string describing how comments end. If None, then
           a comment ends at the end of the line.
```
Some files accept more than 1 kind of comment.
For those that do, this is the alternative form.
For now, it is assumed that if start2 is not None,
then stop is None (thus no stop2 attribute).

```python
def __init__(self, start, stop=None, start2=None, max_lines=30):
    """The "Copyright" keyword should be within MAX_LINES lines
    from the start of the file.""
    self.start = start
    self.stop = stop
    self.start2 = start2
    self.max_lines = max_lines
```

# The Comment object for Ada code (and GPR files).
ADA_COMMENT = Comment(start="--")

THIS_YEAR = str(datetime.date.today().year)

# 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).
EXCLUSION_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c", "gdbarch.c",  
    "gdbarch.h", "idl.text", "gpl.text", "gdbtk", "gdb.gdbtk", "osf-share",  
    "aclocal.m4", "step-line.inp", "step-line.c",  
)

# Files that are too different from the rest to be processed automatically.
BY_HAND = ['../sim/ppc/psim.texinfo']

# Files for which we know that they do not have a copyright header.
# Ideally, this list should be empty (but it may not be possible to
# add a copyright header in some of them).
NO_COPYRIGHT = (  
    # Configure files. We should fix those, one day.
    "testsuite/gdb.cell/configure.ac", "testsuite/gdb.hp/configure.ac",  
    "testsuite/gdb.hp/gdb.aCC/configure.ac",  
    "testsuite/gdb.hp/gdb.base-hp/configure.ac",  
    "testsuite/gdb.hp/gdb.compat/configure.ac",  
    "testsuite/gdb.hp/gdb.defects/configure.ac",  
    "testsuite/gdb.hp/gdb.objdbg/configure.ac",  
    "testsuite/gdb.stabs/configure.ac",  
    ".../sim/arm/configure.ac", ".../sim/avr/configuration.ac",  
    ".../sim/cr16/configuration.ac", ".../sim/cris/configuration.ac",  
    ".../sim/d10v/configuration.ac", ".../sim/erc32/configuration.ac",  
    ".../sim/frv/configuration.ac", ".../sim/h8300/feature.ac",  
    ".../sim/igen/configuration.ac", ".../sim/iq2000/configuration.ac",  
)
"./sim/lm32/configure.ac", "../sim/m32r/configure.ac",
"./sim/m68hc11/configure.ac", "../sim/mcore/configure.ac",
"./sim/microblaze/configure.ac", "../sim/mips/configure.ac",
"./sim/mn10300/configure.ac", "../sim/moxie/configure.ac",
"./sim/ppc/configure.ac", "../sim/sh/configure.ac",
"./sim/sh64/configure.ac", "../sim/testsuite/configure.ac",
"./sim/testsuite/d10v-elf/configure.ac",
"./sim/testsuite/frv-elf/configure.ac",
"./sim/testsuite/m32r-elf/configure.ac",
"./sim/testsuite/mips64el-elf/configure.ac", "../sim/v850/configure.ac",
# Assembly files. It's not certain that we can add a copyright
# header in a way that works for all platforms supported by the
# testcase...
"testsuite/gdb.arch/pa-nullify.s", "testsuite/gdb.arch/pa64-nullify.s",
"testsuite/gdb.asm/asmsrc1.s", "testsuite/gdb.asm/asmsrc2.s",
"testsuite/gdb.disasm/am33.s", "testsuite/gdb.disasm/h8300s.s",
"testsuite/gdb.disasm/hppa.s", "testsuite/gdb.disasm/mn10200.s",
"testsuite/gdb.disasm/mn10300.s", "testsuite/gdb.disasm/sh3.s",
"testsuite/gdb.disasm/to1_mov.s", "testsuite/gdb.disasm/to2_mova.s",
"testsuite/gdb.disasm/to3_add.s", "testsuite/gdb.disasm/to4_sub.s",
"testsuite/gdb.disasm/to5_cmp.s", "testsuite/gdb.disasm/to6_ari2.s",
"testsuite/gdb.disasm/to7_ari3.s", "testsuite/gdb.disasm/to8_or.s",
"testsuite/gdb.disasm/to9_xor.s", "testsuite/gdb.disasm/t10_and.s",
"testsuite/gdb.disasm/t11_logs.s", "testsuite/gdb.disasm/t12_bit.s",
"testsuite/gdb.disasm/t13_otr.s", "testsuite/gdb.hp/gdb.base-hp/reg-pa64.s",
"testsuite/gdb.hp/gdb.base-hp/reg.s",
"./sim/testsuite/d10v-elf/exit47.s",
"./sim/testsuite/d10v-elf/hello.s",
"./sim/testsuite/d10v-elf/loop.s",
"./sim/testsuite/d10v-elf/t-ae-ld-d.s",
"./sim/testsuite/d10v-elf/t-ae-ld-id.s",
"./sim/testsuite/d10v-elf/t-ae-ld-im.s",
"./sim/testsuite/d10v-elf/t-ae-ld-ip.s",
"./sim/testsuite/d10v-elf/t-ae-ld2w-d.s",
"./sim/testsuite/d10v-elf/t-ae-ld2w-i.s",
"./sim/testsuite/d10v-elf/t-ae-ld2w-id.s",
"./sim/testsuite/d10v-elf/t-ae-ld2w-im.s",
"./sim/testsuite/d10v-elf/t-ae-ld2w-ip.s",
"./sim/testsuite/d10v-elf/t-ae-st-d.s",
"./sim/testsuite/d10v-elf/t-ae-st-id.s",
"./sim/testsuite/d10v-elf/t-ae-st-im.s",
"./sim/testsuite/d10v-elf/t-ae-st-is.s",
"./sim/testsuite/d10v-elf/t-ae-st2w-d.s",
"./sim/testsuite/d10v-elf/t-ae-st2w-i.s",
"./sim/testsuite/d10v-elf/t-ae-st2w-id.s"
"../sim/testsuite/d10v-elf/t-ae-st2w-im.s",
"../sim/testsuite/d10v-elf/t-ae-st2w-ip.s",
"../sim/testsuite/d10v-elf/t-ae-st2w-is.s",
"../sim/testsuite/d10v-elf/t-dbts.s",
"../sim/testsuite/d10v-elf/t-lp-st.s",
"../sim/testsuite/d10v-elf/t-mac.s",
"../sim/testsuite/d10v-elf/t-mod-lp-pre.s",
"../sim/testsuite/d10v-elf/t-msbu.s",
"../sim/testsuite/d10v-elf/t-mulxu.s",
"../sim/testsuite/d10v-elf/t-mvtac.s",
"../sim/testsuite/d10v-elf/t-mvtc.s",
"../sim/testsuite/d10v-elf/t-rac.s",
"../sim/testsuite/d10v-elf/t-rachi.s",
"../sim/testsuite/d10v-elf/t-rdt.s",
"../sim/testsuite/d10v-elf/t-reps.s",
"../sim/testsuite/d10v-elf/t-rie-xx.s",
"../sim/testsuite/d10v-elf/t-rie.s",
"../sim/testsuite/d10v-elf/t-sac.s",
"../sim/testsuite/d10v-elf/t-sachi.s",
"../sim/testsuite/d10v-elf/t-sadd.s",
"../sim/testsuite/d10v-elf/t-slae.s",
"../sim/testsuite/d10v-elf/t-sp.s",
"../sim/testsuite/d10v-elf/t-sub.s",
"../sim/testsuite/d10v-elf/t-sub2w.s",
"../sim/testsuite/d10v-elf/t-subi.s",
"../sim/testsuite/d10v-elf/t-trap.s",
"../sim/testsuite/frv-elf/cache.s",
"../sim/testsuite/frv-elf/exit47.s",
"../sim/testsuite/frv-elf/grloop.s",
"../sim/testsuite/frv-elf/hello.s",
"../sim/testsuite/frv-elf/loop.s",
"../sim/testsuite/m32r-elf/exit47.s",
"../sim/testsuite/m32r-elf/hello.s",
"../sim/testsuite/m32r-elf/loop.s",
"../sim/testsuite/sim/cris/hw/rv-n-cris/quit.s",
"../sim/testsuite/sim/h8300/addb.s",
"../sim/testsuite/sim/h8300/addl.s",
"../sim/testsuite/sim/h8300/adds.s",
"../sim/testsuite/sim/h8300/addw.s",
"../sim/testsuite/sim/h8300/addx.s",
"../sim/testsuite/sim/h8300/andb.s",
"../sim/testsuite/sim/h8300/andl.s",
"../sim/testsuite/sim/h8300/andw.s",
"../sim/testsuite/sim/h8300/band.s",
"../sim/testsuite/sim/h8300/bfld.s",
"../sim/testsuite/sim/h8300/biand.s",
"../sim/testsuite/sim/h8300/bra.s",
"../sim/testsuite/sim/h8300/brabc.s"
"../sim/testsuite/sim/h8300/bset.s",
"../sim/testsuite/sim/h8300/cmpb.s",
"../sim/testsuite/sim/h8300/cmpl.s",
"../sim/testsuite/sim/h8300/cmpw.s",
"../sim/testsuite/sim/h8300/daa.s",
"../sim/testsuite/sim/h8300/das.s",
"../sim/testsuite/sim/h8300/div.s",
"../sim/testsuite/sim/h8300/dec.s",
"../sim/testsuite/sim/h8300/extl.s",
"../sim/testsuite/sim/h8300/tevl.s",
"../sim/testsuite/sim/h8300/extw.s",
"../sim/testsuite/sim/h8300/inc.s",
"../sim/testsuite/sim/h8300/jmp.s",
"../sim/testsuite/sim/h8300/ldc.s",
"../sim/testsuite/sim/h8300/ldm.s",
"../sim/testsuite/sim/h8300/mac.s",
"../sim/testsuite/sim/h8300/mova.s",
"../sim/testsuite/sim/h8300/movb.s",
"../sim/testsuite/sim/h8300/mov1.s",
"../sim/testsuite/sim/h8300/movmd.s",
"../sim/testsuite/sim/h8300/movs1.d",
"../sim/testsuite/sim/h8300/movw.s",
"../sim/testsuite/sim/h8300/mul.s",
"../sim/testsuite/sim/h8300/neg.s",
"../sim/testsuite/sim/h8300/nop.s",
"../sim/testsuite/sim/h8300/not.s",
"../sim/testsuite/sim/h8300/orb.s",
"../sim/testsuite/sim/h8300/orl.s",
"../sim/testsuite/sim/h8300/orw.s",
"../sim/testsuite/sim/h8300/rotl.s",
"../sim/testsuite/sim/h8300/rotr.s",
"../sim/testsuite/sim/h8300/rotxl.s",
"../sim/testsuite/sim/h8300/rotxr.s",
"../sim/testsuite/sim/h8300/shal.s",
"../sim/testsuite/sim/h8300/shar.s",
"../sim/testsuite/sim/h8300/shll.s",
"../sim/testsuite/sim/h8300/shlr.s",
"../sim/testsuite/sim/h8300/stack.s",
"../sim/testsuite/sim/h8300/stc.s",
"../sim/testsuite/sim/h8300/subb.s",
"../sim/testsuite/sim/h8300/subl.s",
"../sim/testsuite/sim/h8300/subs.s",
"../sim/testsuite/sim/h8300/subw.s",
"../sim/testsuite/sim/h8300/subx.s",
"../sim/testsuite/sim/h8300/tas.s",
"../sim/testsuite/sim/h8300/xorb.s",
"../sim/testsuite/sim/h8300/xorl.s",
"../sim/testsuite/sim/h8300/xorw.s",
"../sim/testsuite/sim/mips/fpu64-ps-sb1.s"
"./sim/testsuite/sim/mips/fpu64-ps.s",
"./sim/testsuite/sim/mips/hilo-hazard-1.s",
"./sim/testsuite/sim/mips/hilo-hazard-2.s",
"./sim/testsuite/sim/mips/hilo-hazard-3.s",
"./sim/testsuite/sim/mips/mdmx-ob-sb1.s",
"./sim/testsuite/sim/mips/mdmx-ob.s",
"./sim/testsuite/sim/mips/mdmx-ob-sb2.s",
"./sim/testsuite/sim/mips/mdmx-ob.s",
"./sim/testsuite/sim/sh/add.s",
"./sim/testsuite/sim/sh/and.s",
"./sim/testsuite/sim/sh/bandornot.s",
"./sim/testsuite/sim/sh/bclr.s",
"./sim/testsuite/sim/sh/bld.s",
"./sim/testsuite/sim/sh/bldnot.s",
"./sim/testsuite/sim/sh/bset.s",
"./sim/testsuite/sim/sh/bst.s",
"./sim/testsuite/sim/sh/bxor.s",
"./sim/testsuite/sim/sh/clip.s",
"./sim/testsuite/sim/sh/div.s",
"./sim/testsuite/sim/sh/dmxy.s",
"./sim/testsuite/sim/sh/fabs.s",
"./sim/testsuite/sim/sh/fadd.s",
"./sim/testsuite/sim/sh/fail.s",
"./sim/testsuite/sim/sh/fcmpeq.s",
"./sim/testsuite/sim/sh/fcmpeq.s",
"./sim/testsuite/sim/sh/fcnvsd.s",
"./sim/testsuite/sim/sh/fdiv.s",
"./sim/testsuite/sim/sh/fipr.s",
"./sim/testsuite/sim/sh/fldi0.s",
"./sim/testsuite/sim/sh/fldi1.s",
"./sim/testsuite/sim/sh/flds.s",
"./sim/testsuite/sim/sh/fmac.s",
"./sim/testsuite/sim/sh/fmov.s",
"./sim/testsuite/sim/sh/fmul.s",
"./sim/testsuite/sim/sh/fneg.s",
"./sim/testsuite/sim/sh/fpchg.s",
"./sim/testsuite/sim/sh/frchg.s",
"./sim/testsuite/sim/sh/fsca.s",
"./sim/testsuite/sim/sh/fschc.s",
"./sim/testsuite/sim/sh/fsqrt.s",
"./sim/testsuite/sim/sh/fsrra.s",
"./sim/testsuite/sim/sh/fsub.s",
"./sim/testsuite/sim/sh/ftrc.s",
"./sim/testsuite/sim/sh/ldrc.s"
"../sim/testsuite/sim/sh/loop.s",
"../sim/testsuite/sim/sh/macl.s",
"../sim/testsuite/sim/sh/macw.s",
"../sim/testsuite/sim/sh/mov.s",
"../sim/testsuite/sim/sh/movi.s",
"../sim/testsuite/sim/sh/movli.s",
"../sim/testsuite/sim/sh/movua.s",
"../sim/testsuite/sim/sh/movxy.s",
"../sim/testsuite/sim/sh/mulr.s",
"../sim/testsuite/sim/sh/pabs.s",
"../sim/testsuite/sim/sh/padd.s",
"../sim/testsuite/sim/sh/paddc.s",
"../sim/testsuite/sim/sh/pand.s",
"../sim/testsuite/sim/sh/pass.s",
"../sim/testsuite/sim/sh/pclr.s",
"../sim/testsuite/sim/sh/pdec.s",
"../sim/testsuite/sim/sh/pdmsb.s",
"../sim/testsuite/sim/sh/pinc.s",
"../sim/testsuite/sim/sh/pmul.s",
"../sim/testsuite/sim/sh/prd.s",
"../sim/testsuite/sim/sh/pshai.s",
"../sim/testsuite/sim/sh/pshar.s",
"../sim/testsuite/sim/sh/pshli.s",
"../sim/testsuite/sim/sh/pshlr.s",
"../sim/testsuite/sim/sh/psub.s",
"../sim/testsuite/sim/sh/pswap.s",
"../sim/testsuite/sim/sh/pushpop.s",
"../sim/testsuite/sim/sh/resbank.s",
"../sim/testsuite/sim/sh/sett.s",
"../sim/testsuite/sim/sh/shl.s",
"../sim/testsuite/sim/sh/shl16.s",
"../sim/testsuite/sim/sh/shl2.s",
"../sim/testsuite/sim/sh/shl8.s",
"../sim/testsuite/sim/sh/shr.s",
"../sim/testsuite/sim/sh/shr16.s",
"../sim/testsuite/sim/sh/shr2.s",
"../sim/testsuite/sim/sh/shr8.s",
"../sim/testsuite/sim/sh/swap.s",
"../sim/testsuite/sim/sh64/misc/fr-dr.s",
#
.inc files. These are usually assembly or C files...
"testsuite/gdb.asm/alpha.inc",
"testsuite/gdb.asm/arm.inc",
"testsuite/gdb.asm/common.inc",
"testsuite/gdb.asm/empty.inc",
"testsuite/gdb.asm/frv.inc",
"testsuite/gdb.asm/h8300.inc",
"testsuite/gdb.asm/i386.inc",
"testsuite/gdb.asm/ia64.inc"
"testsuite/gdb.asm/iq2000.inc",
"testsuite/gdb.asm/m32c.inc",
"testsuite/gdb.asm/m32r-linux.inc",
"testsuite/gdb.asm/m32r.inc",
"testsuite/gdb.asm/m68hc11.inc",
"testsuite/gdb.asm/m68k.inc",
"testsuite/gdb.asm/mips.inc",
"testsuite/gdb.asm/netbsd.inc",
"testsuite/gdb.asm/openbsd.inc",
"testsuite/gdb.asm/pa.inc",
"testsuite/gdb.asm/pa64.inc",
"testsuite/gdb.asm/powerpc.inc",
"testsuite/gdb.asm/powerpc64.inc",
"testsuite/gdb.asm/s390.inc",
"testsuite/gdb.asm/s390x.inc",
"testsuite/gdb.asm/sh.inc",
"testsuite/gdb.asm/sparc.inc",
"testsuite/gdb.asm/sparc64.inc",
"testsuite/gdb.asm/spu.inc",
"testsuite/gdb.asm/v850.inc",
"testsuite/gdb.asm/x86_64.inc",
"testsuite/gdb.asm/xstormy16.inc",
"../sim/testsuite/sim/arm/iwmmxt/testutils.inc",
"../sim/testsuite/sim/arm/testutils.inc",
"../sim/testsuite/sim/arm/thumb/testutils.inc",
"../sim/testsuite/sim/arm/xscale/testutils.inc",
"../sim/testsuite/sim/cr16/testutils.inc",
"../sim/testsuite/sim/cris/asm/testutils.inc",
"../sim/testsuite/sim/cris/hw/rv-n-cris/testutils.inc",
"../sim/testsuite/sim/fr30/testutils.inc",
"../sim/testsuite/sim/frv/testutils.inc",
"../sim/testsuite/sim/h8300/testutils.inc",
"../sim/testsuite/sim/m32r/testutils.inc",
"../sim/testsuite/sim/sh/testutils.inc",
"../sim/testsuite/sim/sh64/compact/testutils.inc",
"../sim/testsuite/sim/sh64/media/testutils.inc",
"../sim/testsuite/sim/v850/testutils.inc",
)

# A mapping between file extensions to their associated Comment object.
# This dictionary also contains a number of exceptions, based on
# filename.
COMMENT_MAP = \
{ ".1" : Comment(start=r'."'),
".ac" : Comment(start="dnl", start2="#"),
".ads" : ADA_COMMENT,
".adb" : ADA_COMMENT,
".f" : Comment(start="c"),
".f90" : Comment(start="!"),
".gpr" : ADACOMMENT,
".inc" : Comment(start="#", start2=";"),
".s" : Comment(start="!"),
".tex" : Comment(start="%"),
".texi" : Comment(start="@c"),
".texinfo" : Comment(start="@c"),

# Files that use a different way of including the copyright
# header...
"ada-operator.inc" : Comment(start="/\*", stop="/\*/"),
"gdbint.texinfo" : Comment(start='@copying', stop='@end copying'),
"annotate.texinfo" : Comment(start='@copying', stop='@end copying',
 max_lines=50),
"stabs.texinfo" : Comment(start='@copying', stop='@end copying'),
}

class NotFound(Exception):
    pass

class AlreadyDone(Exception):
    pass

def process_header(src, dst, cdescr):
    """Read from SRC for up to CDESCR.MAX_LINES until we find a copyright
notice. If found, then write the entire file, with the copyright
noticed updated with the current year added.

Raises NotFound if the copyright notice could not be found or has
some inconsistencies.

Raises AlreadyDone if the copyright notice already includes the current
year.
"""
    line_count = 0
    # The start-of-comment marker used for this file. Only really useful
    # in the case where comments ends at the end of the line, as this
    # allows us to know which comment marker to use when breaking long
    # lines (in the cases where there are more than one.
    cdescr_start = ""
    while True:
        # If we still haven't found a copyright line within a certain
        # number of lines, then give up.
        if line_count > cdescr.max_lines:
            raise NotFound("start of Copyright not found")
        line = src.readline()
line_count += 1
if not line:
    raise NotFound("start of Copyright not found (EOF)")

# Is this a copyright line? If not, then no transformation is
# needed. Write it as is, and continue.
if not re.search(r"Copyright.*\b(199\d|20\d\d)\b", line):
    dst.write(line)
    continue

# If a start-of-comment marker is needed for every line, try to
# figure out which one it is that is being used in this file (most
# files only accept one, in which case it's easy - but some accept
# two or more...).
if cdescr.stop is None:
    stripped_line = line.lstrip()
    if stripped_line.startswith(cdescr.start):
        cdescr_start = cdescr.start
    elif (cdescr.start2 is not None
          and stripped_line.startswith(cdescr.start2)):
        cdescr_start = cdescr.start2
    elif cdescr.start in stripped_line:
        cdescr_start = cdescr.start
    elif (cdescr.start2 is not None
          and cdescr.start2 in stripped_line):
        cdescr_start = cdescr.start2
    else:
        # This can't be a line with a comment, so not the copyright
        # line we were looking for. Ignore.
        continue

    comment = line
    break

while not re.search(r"Free\s+Software\s+Foundation", comment):
    line = src.readline()
    line_count += 1
if not line:
    raise NotFound("Copyright owner not found (EOF)")

if cdescr.stop is None:
    # Expect a new comment marker at the start of each line
    line = line.lstrip()
    if not line.startswith(cdescr_start):
        raise NotFound("Copyright owner not found "
                       "(end of comment)")
    comment += " " + line[len(cdescr_start):]
else:
if cdescr.stop in comment:
    raise NotFound("Copyright owner not found 
    "'(end of comment)"

    comment += line

    # Normalize a bit the copyright string (we preserve the string
    # up until "Copyright", in order to help preserve any original
    # alignment.
    (before, after) = comment.split("Copyright", 1)
    after = after.replace("\n", " ")
    after = re.sub("\s+", " ", after)
    after = after.rstrip()

    # If the copyright year has already been added, the nothing else
    # to do.
    if THIS_YEAR in after:
        raise AlreadyDone

    m = re.match("(.+[0-9]+)(.*)", after)
    if m is None:
        raise NotFound("Internal error - cannot split copyright line: "
            "%s" % comment)

    # Reconstruct the comment line
    comment = before + "Copyright" + m.group(1) + ', %s' % THIS_YEAR
    owner_part = m.group(2).lstrip()

    # Max comment len...
    max_len = 76

    # If we have to break the copyright line into multiple lines,
    # we want to align all the lines on the "Copyright" keyword.
    # Create a small "indent" string that we can use for that.
    if cdescr.stop is None:
        # The comment marker is needed on every line, so put it at the
        # start of our "indent" string.
        indent = cdescr_start + ' ' * (len(before) - len(cdescr_start))
    else:
        indent = ' ' * len(before)

    # If the line is too long...
    while len(comment) > max_len:
        # Split the line at the first space before max_len.
        space_index = comment[0:max_len].rfind(' ')
        if space_index < 0:
            # No space in the first max_len characters???
            # Split at the first space, then...
            space_index = comment.find(' ')
        if space_index < 0:
            #
# Still no space found. This is extremely unlikely, but
# just pretend there is one at the end of the string.
space_index = len(comment)

# Write the first part of the string up until the space
# we selected to break our line.
dst.write(comment[:space_index] + '\n')

# Strip the part of comment that we have finished printing.
if space_index < len(comment):
    comment = comment[space_index + 1:]
else:
    comment = ''

# Prepend the "indent" string to make sure that we remain
# aligned on the "Copyright" word.
comment = indent + comment

# And finally, write the rest of the last line... We want to write
# "Free Software Foundation, Inc" on the same line, so handle this
# with extra care.
dst.write(comment)
if len(comment) + 1 + len(owner_part) > max_len:
    dst.write('\n' + indent)
else:
    dst.write(' ')
dst.write(owner_part + '\n')

def comment_for_filename(filename):
    """Return the Comment object that best describes the given file.
    This a smart lookup of the COMMENT_MAP dictionary where we check
    for filename-based exceptions first, before looking up the comment
    by filename extension. """
    # First, consult the COMMENT_MAP using the filename, in case this
    # file needs special treatment.
    basename = os.path.basename(filename)
    if basename in COMMENT_MAP:
        return COMMENT_MAP[basename]
    # Not a special file. Check the file extension.
    ext = os.path.splitext(filename)[1]
    if ext in COMMENT_MAP:
        return COMMENT_MAP[ext]
    # Not a know extension either, return None.
    return None

def process_file(filename):
    """Processes the given file.
    """
cdescr = comment_for_filename(filename)
if cdescr is None:
    # Either no filename extension, or not an extension that we
    # know how to handle.
    return

dst_filename = filename + '.new'
src = open(filename)
dst = open(dst_filename, 'w')
try:
    process_header(src, dst, cdescr)
except AlreadyDone:
    print "+++ Already up to date: `%s'." % filename
dst.close()
os.unlink(dst_filename)
if filename in NO_COPYRIGHT:
    # We expect the search for a copyright header to fail, and
    # yet we found one...
    print "Warning: `%s' should not be in NO_COPYRIGHT" % filename
    return
except NotFound as inst:
    dst.close()
os.unlink(dst_filename)
if not filename in NO_COPYRIGHT:
    print "*** \033[31m%s\033[0m: %s" % (filename, inst)
    return

if filename in NO_COPYRIGHT:
    # We expect the search for a copyright header to fail, and
    # yet we found one...
    print "Warning: `%s' should not be in NO_COPYRIGHT" % filename

for line in src:
    dst.write(line)
src.close()
dst.close()
os.rename(dst_filename, filename)

if __name__ == "__main__":
    if not os.path.isfile("doc/gdb.texinfo"):
        print "Error: This script must be called from the gdb directory."
    for gdb_dir in ("", ".sim", ".include/gdb"):
        for root, dirs, files in os.walk(gdb_dir):
            for filename in files:
                fullpath = os.path.join(root, filename)
                if fullpath.startswith(".*/\":
                    fullpath = fullpath[2:]
                if filename not in EXCLUSION_LIST and fullpath not in BY_HAND:
# Paths that start with `./` are ugly, so strip that.
# This also allows us to omit them in the NO_COPYRIGHT
# list...

process_file(fullpath)

print
print "\033[32mREMINDER: The following files must be updated by hand.\033[0m"
for filename in BY_HAND:
  print "  ", filename

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Version 2, June 1991

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[This is the first released version of the library GPL.  It is
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1.1303 xalan 2.7.2
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

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

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

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

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

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

1.1311 commons-digester 2.1

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* https://github.com/eclipse-ee4j/jaxrs-api

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^L

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

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

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
Attachments: Message as HTML

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

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

-- Nathan
=20
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216
From: cracklib-devel-bounces@li...
On Behalf Of Mike Frysinger
Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

pras

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

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of 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: 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

> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
data
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > > it was enough to just get it consistent and documented as to what
> > it was
> > > released under. This wasn't actually a license change, just a
> > > clarification of the licensing that was already in place.
> > >
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> > >
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it 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.
> > -mike

---

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

> 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
> > it was
> > > released under. This wasn't actually a license change, just a
> > > clarification of the licensing that was already in place.
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> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
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> > unlike the old license, GPL-2 prevents people from using cracklib
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> > place of a
> > library to dictact to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

My apologies for not chiming in in anything resembling a reasonable
timeframe.
I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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

Cheers,

Nalin

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

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

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

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

yes. go for it. thanks++

-a

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

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

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

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

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTPT id 191Gxtptr020623
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 C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (hel0=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7101CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E69F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585

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

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

Happy now? :-)

-a

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: cracklib
Upstream-Contact: Nathan Neulinger <nneul@umr.edu>
Source: http://sourceforge.net/projects/cracklib

Files: *
Copyright: 1993 Alec Muffett <alecm@crypto.dircon.co.uk>
          2005-2014 Nathan Neulinger <nneul@umr.edu>
          2008-2014 Jan Dittberner <jan@dittberner.info>
License: LGPL-2.1
Comment:
Starting from version 2.8.15 released on 2009-11-19 cracklib is licensed under the terms of the LGPL 2.1. For a
detailed discussion and history see README-LICENSE.

Files: debian/*
Copyright: 1998 Jean Pierre LeJacq
          Martin Pitt <martin@piware.de>
          Jan Dittberner <jandd@debian.org>
License: LGPL-2.1

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distribution or on the World Wide Web at
http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
1.1320 netcat-openbsd 1.105-7ubuntu1

1.1320.1 Available under license:

Format: http://dep.debian.net/deps/dep5/
Source: http://www.openbsd.org/cgi-bin/cvsweb/src/usr.bin/nc/

Files: netcat.c
Copyright: 2001 Eric Jackson <ericj@monkey.org>
License: BSD-3-Clause

Files: atomicio.*
Copyright: 2005 Anil Madhavapeddy
1995,1999 Theo de Raadt
License: BSD-3-Clause

Files: socks.c
Copyright: 1999 Niklas Hallqvist
2004, 2005 Damien Miller
License: BSD-3-Clause

Files: debian/*
Copyright: 2008, 2009, 2010 Decklin Foster <decklin@red-bean.com>
2008, 2009, 2010 Soren Hansen <soren@ubuntu.com>
2012 Aron Xu <aron@debian.org>
License: BSD-3-Clause

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1.1330 zlib 1.2.7

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1.1331 python-defaults 2.7.12-1~16.04

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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE

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dh_python2, pycompile, pyclean and debpython module:
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1.1332 distlib 0.2.2
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distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
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1.1333 xmlsec 1.2.20-2ubuntu4
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xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries

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

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## -*-makefile-*-

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

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

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

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

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

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

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

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

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

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

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \ 
| sed "\(\&\)\([.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) $@

## End FreeBSD-specific setup

### 1.1335jsonpickle 0.9.5

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1.1336 jetty 6.1.22

1.1337 nss 3.28.4-0ubuntu0.16.04.14

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

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

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    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
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https://github.com/santoshsahoo/nbench (mirror of the same code)

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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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1.1366 goprotobuf

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

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

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

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

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- when: vcsim is not defined
block:
- name: Add a vCenter evaluation license
vcenter_license: &vcenter_lic_data
hostname: "{{ vcenter_hostname }}"
username: "{{ vcenter_username }}"
password: "{{ vcenter_password }}"
validate_certs: no
license: 00000-00000-00000-00000-00000
state: present
- name: Remove an (unused) vCenter evaluation license
vcenter_license:
<<: *vcenter_lic_data
state: absent
- name: Add an invalid vCenter license
vcenter_license:
<<: *vcenter_lic_data
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register: vcenter_license_output
failed_when: "is not existing or can not be added" not in vcenter_license_output.msg'
dependencies:
  - prepare_vmware_tests
This package was debianized by Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu> on
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 */

package io.swagger.annotations;
import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
  * License metadata available within the info section of a Swagger definition, see
  * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
  * @since 1.5.0
  */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {
    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     *
     * @return an optional URL for the license.
     */
    String url() default "";
}
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Open Source Used In HyperFlex HX Data Platform 5.0(1a) 14991

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'openssl/crypto/dso/dlfcn.c',
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'RC4_ASM',
'MD5_ASM',
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'VPAES_ASM',
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'./crypto/include/internal',
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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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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{
  'variables': {
    'openssl_sources': [
      'openssl/ssl/bio_ssl.c',
      'openssl/ssl/d1_lib.c',
      'openssl/ssl/d1_msg.c',
      'openssl/ssl/d1_srtp.c',
      'openssl/ssl/methods.c',
      'openssl/ssl/packet.c',
      'openssl/ssl/pqueue.c',
      'openssl/ssl/record/dtls1_bitmap.c',
      'openssl/ssl/record/rec_layer_d1.c',
      'openssl/ssl/record/rec_layer_s3.c',
      'openssl/ssl/record/ssl3_buffer.c',
      'openssl/ssl/record/ssl3_record.c',
      'openssl/ssl/record/ssl3_record_tls13.c',
      'openssl/ssl/s3_cbc.c',
      'openssl/ssl/s3_enc.c',
      'openssl/ssl/s3_lib.c',
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      'openssl/ssl/ssl_cert.c',
      'openssl/ssl/ssl_cipher.c',
      'openssl/ssl/ssl_conf.c',
      'openssl/ssl/ssl_err.c',
      'openssl/ssl/ssl_init.c',
      'openssl/ssl/ssl_lib.c',
      'openssl/ssl/ssl_mcnf.c',
      'openssl/ssl/ssl_quic.c',
      'openssl/ssl/ssl_rsa.c',
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      'openssl/ssl/statem/extensions_clnt.c',
      'openssl/ssl/statem/extensions_cust.c',
      'openssl/ssl/statem/extensions_srvr.c',
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      'openssl/ssl/statem/statem_clnt.c',
      'openssl/ssl/statem/statem_dtls.c',
      'openssl/ssl/statem/statem_lib.c',
      'openssl/ssl/statem/statem_quic.c',
      'openssl/ssl/statem/statem_srvr.c',
      'openssl/ssl/t1_enc.c',
      'openssl/ssl/t1_lib.c'
    ]
  }
}
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'openssl/ssl/t1_trce.c',
'openssl/ssl/tls13_enc.c',
'openssl/ssl/tls_srp.c',
'openssl/crypto/aes/aes_cbc.c',
'openssl/crypto/aes/aes_cfb.c',
'openssl/crypto/aes/aes_core.c',
'openssl/crypto/aes/aes_ecb.c',
'openssl/crypto/aes/aes_ige.c',
'openssl/crypto/aes/aes_mic.c',
'openssl/crypto/aes/aes_ofb.c',
'openssl/crypto/aes/aes_wrap.c',
'openssl/crypto/aria/aria.c',
'openssl/crypto/asn1/a_bitstr.c',
'openssl/crypto/asn1/a_d2i_fp.c',
'openssl/crypto/asn1/a_digest.c',
'openssl/crypto/asn1/a_dup.c',
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'openssl/crypto/asn1/a_int.c',
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'openssl/crypto/asn1/a_object.c',
'openssl/crypto/asn1/a_octet.c',
'openssl/crypto/asn1/a_print.c',
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'openssl/crypto/asn1/a_strnid.c',
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'openssl/crypto/asn1/a_utf8.c',
'openssl/crypto/asn1/a_verify.c',
'openssl/crypto/asn1/ameth_lib.c',
'openssl/crypto/asn1/asn1_err.c',
'openssl/crypto/asn1/asn1_gen.c',
'openssl/crypto/asn1/asn1_item_list.c',
'openssl/crypto/asn1/asn1_lib.c',
'openssl/crypto/asn1/asn1_par.c',
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'openssl/crypto/asn1/asn_pack.c',
'openssl/crypto/asn1/bio_asn1.c',
'openssl/crypto/asn1/bio_ndef.c',
'openssl/crypto/asn1/d2i_pr.c',
'openssl/crypto/asn1/d2i_pu.c',
'openssl/crypto/asn1/evp_asn1.c',
'openssl/crypto/asn1/f_int.c',
'openssl/crypto/asn1/f_string.c',
'openssl/crypto/asn1/i2d_pr.c',
'openssl/crypto/asn1/i2d_pu.c',
'openssl/crypto/asn1/n_pkey.c',
'openssl/crypto/asn1/nssseq.c',
'openssl/crypto/asn1/p5_pbe.c',
'openssl/crypto/asn1/p5_pbev2.c',
'openssl/crypto/asn1/p5_scrypt.c',
'openssl/crypto/asn1/p8_pkey.c',
'openssl/crypto/asn1/t_bitst.c',
'openssl/crypto/asn1/t_pkey.c',
'openssl/crypto/asn1/t_spki.c',
'openssl/crypto/asn1/tasn_dec.c',
'openssl/crypto/asn1/tasn_enc.c',
'openssl/crypto/asn1/tasn_free.c',
'openssl/crypto/asn1/tasn_new.c',
'openssl/crypto/asn1/tasn_prm.c',
'openssl/crypto/asn1/tasn_scn.c',
'openssl/crypto/asn1/tasn_typ.c',
'openssl/crypto/asn1/tasn_utl.c',
'openssl/crypto/asn1/x_algor.c',
'openssl/crypto/asn1/x_bigint.c',
'openssl/crypto/asn1/x_info.c',
'openssl/crypto/asn1/x_int64.c',
'openssl/crypto/asn1/x_long.c',
'openssl/crypto/asn1/x_pkey.c',
'openssl/crypto/asn1/x_sig.c',
'openssl/crypto/asn1/x_spki.c',
'openssl/crypto/asn1/x_val.c',
'openssl/crypto/async/arch/async_null.c',
'openssl/crypto/async/arch/async_posix.c',
'openssl/crypto/async/arch/async_win.c',
'openssl/crypto/async/async.c',
'openssl/crypto/async/async_err.c',
'openssl/crypto/async/async_err.c',
'openssl/crypto/async/async_wait.c',
'openssl/crypto/bf/bf_cfb64.c',
'openssl/crypto/bf/bf_ecb.c',
'openssl/crypto/bf/bf_fックス.c',
'openssl/crypto/bf/bf_ofb64.c',
'openssl/crypto/bf/bf_read.c',
'openssl/crypto/bio/b_addr.c',
'openssl/crypto/bio/b_dump.c',
'openssl/crypto/bio/b_print.c',
'openssl/crypto/bio/b_sock.c',
'openssl/crypto/bio/b_sock2.c',
'openssl/crypto/bio/buff.c',
'openssl/crypto/bio/bf_pbe.c',
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'openssl/crypto/bio/bf_null.c'
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'openssl/crypto/camellia/cmll_misc.c',
'openssl/crypto/camellia/cmll_ofb.c',
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'openssl/crypto/ct/ct_oct.c',
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'openssl/crypto/ct/ct_sct.c',

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 15137
'openssl/crypto/ec/exc_meth.c',
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'openssl/crypto/idea/i_cfb64.c',
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'openssl/crypto/modes/wrap128.c',
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'openssl/crypto/o_str.c',
'openssl/crypto/o_time.c',
'openssl/crypto/objects/o_names.c',
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'openssl/crypto/objects/obj_lib.c',
'openssl/crypto/objects/obj_xref.c',
'openssl/crypto/ocsp/ocsp_asn.c',
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'openssl/crypto/ocsp/ocsp_ext.c',
'openssl/crypto/ocsp/ocsp_ht.c',
'openssl/crypto/ocsp/ocsp_lib.c',
'openssl/crypto/ocsp/ocsp_prn.c',
'openssl/crypto/ocsp/ocsp_srv.c',
'openssl/crypto/ocsp/ocsp_vfy.c',

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 15142
'openssl/crypto/srp/srp_lib.c',
'openssl/crypto/srp/srp_vfy.c',
'openssl/crypto/stack/stack.c',
'openssl/crypto/store/loader_file.c',
'openssl/crypto/store/store_err.c',
'openssl/crypto/store/store_init.c',
'openssl/crypto/store/store_lib.c',
'openssl/crypto/store/store_register.c',
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'openssl/crypto/threads_none.c',
'openssl/crypto/threads_pthread.c',
'openssl/crypto/threads_win.c',
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'openssl/crypto/ts/ts_req_utils.c',
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'openssl/crypto/ts/ts_rsp_utils.c',
'openssl/crypto/ts/ts_rsp_verify.c',
'openssl/crypto/ts/ts_verify_ctx.c',
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'openssl/crypto/uid.c',
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'openssl/crypto/x509/by_dir.c',
'openssl/crypto/x509/by_file.c',
'openssl/crypto/x509/t_crl.c',
'openssl/crypto/x509/t_req.c',
'openssl/crypto/x509/t_x509.c',
'openssl/crypto/x509/x509_att.c',
'openssl/crypto/x509/x509_cmp.c',
'openssl/crypto/x509/x509_d2.c',
'openssl/crypto/x509/x509_def.c',
'openssl/crypto/x509/x509_err.c',
'openssl/crypto/x509/x509_ext.c',
'openssl/crypto/x509/x509_lu.c',
'openssl/crypto/x509/x509_meth.c',
'openssl/crypto/x509/x509_obj.c',
'openssl/crypto/x509/x509_obj_r2x.c',
'openssl/crypto/x509/x509_req.c',
'openssl/crypto/x509/x509_set.c',

Open Source Used in HyperFlex HX Data Platform 5.0(1a) 15145
`openssl/crypto/x509v3/v3_pmaps.c`,
`openssl/crypto/x509v3/v3_prn.c`,
`openssl/crypto/x509v3/v3_purp.c`,
`openssl/crypto/x509v3/v3_skey.c`,
`openssl/crypto/x509v3/v3_sxnet.c`,
`openssl/crypto/x509v3/v3_tlsf.c`,
`openssl/crypto/x509v3/v3_utl.c`,
`openssl/crypto/x509v3/v3err.c`,
`openssl/engines/e_capi.c`,
`openssl/engines/e_padlock.c`,

`openssl_sources_BSD-x86_64`: [
`./config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-mb-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/aesni-sha1-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/aesni-sha256-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/aesni-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-avx2.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-gf2m.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont5.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/camellia/cml-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/chacha/chacha-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/ce/cep_nistz256-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/ce/x25519-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/md5/md5-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/modes/aesni-gcm-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/modes/ghash-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/poly1305/poly1305-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/rc4/rc4-md5-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/rc4/rc4-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/sha/keccak1600-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha1-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha256-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha512-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/whrlpool/wp-x86_64.s`,
`./config/archs/BSD-x86_64/asm_avx2/crypto/x86_64cpuid.s`,
`./config/archs/BSD-x86_64/asm_avx2/engines/e_padlock-x86_64.s`,

`openssl_defines_BSD-x86_64`: [ `NDEBUG`, `L_ENDIAN`, `OPENSSL_PIC`, `OPENSSL_CPUID_OBJ`, `OPENSSL_IA32_SSE2`,

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Open Source Used In HyperFlex HX Data Platform 5.0(1a) 15147
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_MONT5',
'OPENSSL_BN_ASM_GF2m',
'SHA1_ASM',
'SHA256_ASM',
'SHA512_ASM',
'KECCAK1600_ASM',
'RC4_ASM',
'MD5_ASM',
'AESNI_ASM',
'VPAES_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
'X25519_ASM',
'POLY1305_ASM',
],
'openssl_cflags_BSD-x86_64': [
'-Wa,-noexecstack',
'-Wall -O3',
'-pthread',
'-Wall -O3',
],
'openssl_ex_libs_BSD-x86_64': [
'-pthread',
],
'includedirs': [
'.',
'./include',
'./crypto',
'./crypto/include/internal',
],
'defines': ['<@(openssl_defines_BSD-x86_64)'],
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'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
}

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Performance improvements (Javascript-specific):

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1.1383 jsontoken 1.1

1.1384 graphite-carbon 0.9.15 1

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1.1385 cracklib 2.9.2 1ubuntu1
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^L

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<signature of Ty Coon>, 1 April 1990
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Discussion thread from mailing list archive, with approval from everyone actively
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[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

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

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

-- Nathan
=20

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

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

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

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =20
a=20
library to dictact to application writes what license they should be using.=

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 15234
thus LGPL-2.1 enters to fill this void.

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

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> > change until it was mentioned in the latest notes.
> > unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> > applications are also GPL-2 which imo is just wrong, it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
I am sympathetic. Guys, what do you reckon?

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

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

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

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

yes. go for it. thanks++

-a

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

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

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

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

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.
This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

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

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxptr020623 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3]) by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1icOcX-0004Qt-6L for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=floated
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self-contained would be ideal.

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

Happy now? :-)

-a

---

**1.1386 cjson 1.7.14**

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Contributors
============

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- [Ivan Void](https://github.com/npi3pak)
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- [Mike Pontillo](https://github.com/miap)
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- [Mike Jerris](https://github.com/mjerris)
- [Mike Robinson](https://github.com/mhrobinson)
- [Moorthy](https://github.com/moorthy-bs)
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)

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

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1.1387 open-iscsi 2.0-878

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Found in path(s):
* /opt/cola/permits/1151111093_1617788556.03/0/jnr-constants-0-8-6-sources-3-jar/jnr/constants/ConstantSet.java
* /opt/cola/permits/1151111093_1617788556.03/0/jnr-constants-0-8-6-sources-3-jar/jnr/constants/platform/ConstantResolver.java
* /opt/cola/permits/1151111093_1617788556.03/0/jnr-constants-0-8-6-sources-3-jar/com/kenai/constantine/ConstantSet.java
* /opt/cola/permits/1151111093_1617788556.03/0/jnr-constants-0-8-6-sources-3-jar/jnr/constants/Constant.java
1.1389 joda-time 1.6
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1.1390 python-setuptools 20.7.0-1

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

Building and Distributing Packages with SetupTools

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

``SetupTools`` is a collection of enhancements to the Python ``distutils`` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using ``setupTools`` look to the user like ordinary Python packages based on the ``distutils``. Your users don't need to install or even know about setupTools in order to use them, and you don't have to include the entire setupTools package in your distributions. By including just a single `bootstrap` module (a 12K .py file), your package will automatically download and install ``setupTools`` if the user is building your package from source and doesn't have a suitable version already installed.
Feature Highlights:

* Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <easy_install.html>`_, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ - a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a `MANIFEST.in` file, and without having to force regeneration of the `MANIFEST` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.
Installing ``setuptools``
===============================

Please follow the `EasyInstall Installation Instructions`_ to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations`_ if you are installing anywhere other than Python's ``site-packages`` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

.. _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first install a stable version, and then run::

    ez_setup.py setuptools==dev

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use
========

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools::

    from setuptools import setup, find_packages
    setup(
        name = "HelloWorld",
        version = "0.1",
        packages = find_packages(),
    )
As you can see, it doesn’t take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.

Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the ‘Command Reference’ section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke:

    python setup.py sdist

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts:

    from setuptools import setup, find_packages
    setup(
        name = "HelloWorld",
        version = "0.1",
        packages = find_packages(),
        scripts = ['say_hello.py'],

        # Project uses reStructuredText, so ensure that the docutils get
        # installed or upgraded on the target machine
        install_requires = ['docutils>=0.3'],

        package_data = {
            # If any package contains *.txt or *.rst files, include them:
            '*': ['*.txt', '*.rst'],
            # And include any *.msg files found in the 'hello' package, too:
            'hello': ['*.msg'],
        },

        # metadata for upload to PyPI
        author = "Me",
        author_email = "me@example.com",
        description = "This is an Example Package",
        license = "PSF",
        keywords = "hello world example examples",
        url = "http://example.com/HelloWorld/", # project home page, if any

        # could also include long_description, download_url, classifiers, etc.
    )

In the sections that follow, we'll explain what most of these "setup()"
arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

Specifying Your Project's Version
---------------------------------

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as ``2.4`` or ``0.5``. Each series of digits is treated numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the same release number, denoting the first subrelease of release 2. But ``2.10`` is the *tenth* subrelease of release 2, and so is a different and newer release from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision ``2.4`` is *newer* than revision ``2.4c1``, which in turn is newer than ``2.4b1`` or ``2.4a1``. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like ``2.4-1`` and ``2.4pl3`` are newer than ``2.4``, but are *older* than ``2.4.1`` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include ``alpha``, ``beta``, ``a``, ``c``, ``dev``, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, ``2.4c1`` and ``2.4.c1`` and ``2.4-c1`` all represent release candidate 1 of version ``2.4``, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter ``c``: ``pre``, ``preview``, and ``rc``. So, version ``2.4c1``, ``2.4pre1`` and ``2.4preview1`` are all the exact same version as ``2.4c1``, and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (``-``). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-rl263`` might denote Subversion revision 1263 of a post-release patch of
version `"2.4"`. Or you might use `"2.4-20051127"` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, `"0.6a9.dev-r41475"` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that `"dev"` is a pre-release tag, so this version is a *lower* version number than `"0.6a9"`, which would be the actual ninth alpha of release 0.6. But the `"-r41475"` is a post-release tag, so this version is *newer* than `"0.6a9.dev"`.

For the most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number between them. Version `"1.9adev"` is the `"adev"` prerelease of `"1.9"`, *not* a development pre-release of `"1.9a"`. Use `".dev"` instead, as in `"1.9a.dev"`, or separate the prerelease tags with a number, as in `"1.9a0dev"`, `"1.9a.dev"`, `"1.9a0dev"`, and even `"1.9.a.dev"` are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the `"pkg_resources.parse_version()"` function to compare different version numbers::

  ```
  >>> from pkg_resources import parse_version
  >>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
  True
  >>> parse_version('2.1-rc2') < parse_version('2.1')
  True
  >>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
  True
  ```

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`
* `Managing "Continuous Releases" Using Subversion`
* The `egg_info` command

New and Changed `"setup()"` Keywords

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

The following keyword arguments to `"setup()"` are added or changed by `"setuptools"`. All of them are optional; you do not have to supply them.
unless you need the associated `setuptools` feature.

``include_package_data``
If set to `True`, this tells `setuptools` to automatically include any data files it finds inside your package directories that are specified by your `MANIFEST.in` file. For more information, see the section below on `Including Data Files`.

``exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back any excess files included by `include_package_data`. For a complete description and examples, see the section below on `Including Data Files`.

``package_data``
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`. You do not need to use this option if you are using `include_package_data`, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the `bdist_egg` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins` for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.
''setup_requires''
A string or list of strings specifying what other distributions need to be present in order for the *setup script* to run. `setup tools` will attempt to obtain these (even going so far as to download them using `EasyInstall`) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process `setup()` arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in `setup_requires` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the `.eggs` directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to `install_requires`\*\*and** `setup_requires``.)

''dependency_links''
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by `setup_requires` or `tests_require`. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an `.egg` file.

''namespace_packages''
A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's `zope` package is a namespace package, because subpackages like `zope.interface` and `zope.publisher` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.

''test_suite''
A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test` command below for more details.
``tests_require``

If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the ``test`` command, ``setuptools`` will attempt to obtain these (even going so far as to download them using ``EasyInstall``). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

``_test_loader``

``test_loader``

If you would like to use a different way of finding tests to run than what setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the ``loadTestsFromNames()`` method as defined in the Python ``unittest`` module's ``TestLoader`` class. Setuptools will pass only one test "name" in the 'names' argument: the value supplied for the ``test_suite`` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a ``test_suite`` string.

The module name and class name must be separated by a `:`. The default value of this argument is `"setuptools.command.test:ScanningLoader"`. If you want to use the default ``unittest`` behavior, you can specify `"unittest:TestLoader"` as your ``test_loader`` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the ``tests_require`` option to ensure that the package containing the loader class is available when the ``test`` command is run.

``eager_resources``

A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be `/'-separated paths, relative to the source root, so to list a resource `"foo.png"` in package `"bar.baz"`, you would include the string `"bar/baz/foo.png"` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section
below on `Automatic Resource Extraction`_.

``use_2to3``
Convert the source code from Python 2 to Python 3 with 2to3 during the
build process. See :doc:`python3` for more details.

``convert_2to3_doctests``
List of doctest source files that need to be converted with 2to3.
See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during
the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``

For simple projects, it's usually easy enough to manually add packages to
the `packages` argument of `setup()`. However, for very large projects
(Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the
package list updated. That's what `setuptools.find_packages()` is for.

``find_packages()`` takes a source directory and two lists of package name
patterns to exclude and include. If omitted, the source directory defaults to
the same
directory as the setup script. Some projects use a `src` or `lib`
directory as the root of their source tree, and those projects would of course
use `"src"` or `"lib"` as the first argument to `find_packages()`. (And
such projects also need something like `"package_dir = {":src"}` in their
`setup()` arguments, but that's just a normal distutils thing.)

Anyway, `find_packages()` walks the target directory, filtering by inclusion
patterns, and finds Python packages (any directory). On Python 3.2 and
earlier, packages are only recognized if they include an `__init__.py` file.
Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including
wildcards. For
example, `find_packages(exclude=["*.tests"])` will exclude all packages whose
last name part is `"tests"`. Or, `find_packages(exclude=["*.tests",
"*.tests.*"])` will also exclude any subpackages of packages named `"tests"`,
but it still won't exclude a top-level `"tests"` package or the children
thereof. In fact, if you really want no `"tests"` packages at all, you'll need
something like this:

```python
find_packages(exclude=["*.tests", "*.tests.*", "tests.*", "tests"])
```
in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the ``find_packages()`` function returns a list of package names suitable for use as the ``packages`` argument to ``setup()``. and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

**Automatic Script Creation**

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the `-m` option only works for actual `.py` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an `.exe` file so that users don't have to change their `PATHEXT` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called `foo` and `bar`, and a GUI script called `baz`, you might do something like this:

```python
setup(
    # other arguments here...
    entry_points={
      'console_scripts': [
        'foo = my_package.some_module:main_func',
        'bar = other_module:some_func',
      ],
      'gui_scripts': [
        'baz = my_package_gui:start_func',
      ]
    }
)
```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of `foo`, `bar`, and `baz` scripts will be installed that import `main_func` and `some_func` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to `sys.exit()`, so you
can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The ``.exe`` wrappers find and execute the right version of Python to run the ``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to `sys.path` when the script is run. For more information on "extras", see the section below on 'Declaring Extras'. For more information on "entry points" in general, see the section below on 'Dynamic Discovery of Services and Plugins'.

"Eggsecutable" Scripts
----------------------

Occasionally, there are situations where it's desirable to make an `.egg` file directly executable. You can do this by including an entry point such as the following::

```python
setup(  
    # other arguments here...  
    entry_points = {  
        'setuptools.installation': [  
            'eggsecutable = my_package.some_module:main_func',  
        ]  
    }  
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls `main_func()` from `my_package.some_module`. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `~/bin/sh`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an
error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies

``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `<`, `>`, `<=`, `>=`, `==` or `!=`, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `-`

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. `">1, >2"` becomes `">1"`, and `"<2,<3"` becomes `"<3"`). `"!="` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. `"2,2"` or `"2,2"`) is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers:

```
docutils >= 0.3

# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, 
    ==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST]>=0.5a4

setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the `install_requires` argument to `setup()`. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:
1. When your project is installed, either by using EasyInstall, ``setup.py install``, or ``setup.py develop``, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.

2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to ``sys.path`` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in ``setup.py``, you do *not* need to use the ``require()`` function in your scripts or modules, as long as you either install the project or use ``setup.py develop`` to do development work on it. (See "Development Mode" below for more details on using ``setup.py develop``.)

Dependencies that aren't in PyPI
--------------------------------

If your project depends on packages that aren't registered in PyPI, you may still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils ``sdist`` format,
- a single ``.py`` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the ``dependency_links`` argument to ``setup()``.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge ``showfiles.php`` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single ``.py`` file, you must include an ``"#egg=project-version"`` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version
by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial ``setup.py`` to wrap the single ``.py`` file as an egg.

In the case of a VCS checkout, you should also append ``#egg=project-version`` in order to identify for what package that checkout should be used. You can append ``@REV`` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- ``svn+URL`` for Subversion,
- ``git+URL`` for Git, and
- ``hg+URL`` for Mercurial

A more complete example would be:

``vcs+proto://host/path@revision#egg=project-version``

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the `requires` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg`.

The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed:

```python
setup(
    ...
    dependency_links = [
        "http://peak.telecommunity.com/snapshots/",
    ],
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)
------------------------------------------------------------------

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows
you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires`.

For example, let's say that Project A offers optional PDF and reST support:

```python
setup(  
    name="Project-A",  
    ...  
    extras_require = {  
        'PDF': ['ReportLab>=1.2", "RXP"],  
        'reST': ['docutils>=0.3"],  
    }  
)
```

As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry_points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run:

```python
setup(  
    name="Project-A",  
    ...  
    entry_points = {  
        'console_scripts': [  
            'rst2pdf = project_a.tools.pdfgen [PDF]',  
            'rst2html = project_a.tools.htmlgen',  
            # more script entry points ...  
        ],  
    }  
)
```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this:

```python
setup(  
    name="Project-B",  
    install_requires = ['Project-A[PDF]"],  
    ...  
)
```
This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `"extras_require"` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this:

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ['docutils>=0.3'],
    }
)
```

so that Package B doesn't have to remove the `"[PDF]"` from its requirement specifier.

Including Data Files

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the `"include_package_data"` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```
This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils’ `MANIFEST.in` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control Systems` for information on how to write such plugins.)

If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the `package_data` keyword, e.g.:

```python
from setuptools import setup, find_packages
setup(
    ...  
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        ':': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    }
)
```

The `package_data` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this:

```python
setup.py
src/
    mypkg/
        __init__.py
        mypkg.txt
    data/
        somefile.dat
        otherdata.dat
```

The setuptools setup file might look like this:

```python
from setuptools import setup, find_packages
setup(
    ...  
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'': 'src'},   # tell distutils packages are under src
    package_data = {
        # If any package contains *.txt files, include them:
        ':': ['*.txt'],
    }
)
```
# And include any *.dat files found in the 'data' subdirectory
# of the 'mypkg' package, also:
'mypkg': ['data/*.dat'],
}
)

Notice that if you list patterns in ``package_data`` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash ('/') as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the ``package_data`` argument was previously only available in `setuptools`, it was also added to the Python `distutils` package as of Python 2.4; there is `some documentation for the feature` available on the python.org website. If using the setuptools-specific ``include_package_data`` argument, files specified by ``package_data`` will *not* be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

__ http://docs.python.org/dist/node11.html

Sometimes, the ``include_package_data`` or ``package_data`` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an ``exclude_package_data`` option as well, that allows you to do things like this::

```python
from setuptools import setup, find_packages
setup(
...
packages = find_packages('src'),  # include all packages under src
package_dir = {'': 'src'},   # tell distutils packages are under src

include_package_data = True,    # include everything in source control

# ...but exclude README.txt from all packages
exclude_package_data = { '' : ['README.txt'] },
)
```

The ``exclude_package_data`` option is a dictionary mapping package names to lists of wildcard patterns, just like the ``package_data`` option. And, just as with that option, a key of ``''`` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in ``package_data`` or were
included as a result of using "include_package_data".

In summary, the three options allow you to:

``include_package_data``
Accept all data files and directories matched by "MANIFEST.in".

``package_data``
Specify additional patterns to match files and directories that may or may not be matched by "MANIFEST.in" or found in source control.

``exclude_package_data``
Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run "setup.py clean --all" to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run "setup.py clean --all".

Accessing Data Files at Runtime
-------------------------------

Typically, existing programs manipulate a package's "__file__" attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the 'Resource Management API' of "pkg_resources" to access them. The "pkg_resources" module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also 'Accessing Package Resources' for a quick example of converting code that uses "__file__" to use "pkg_resources" instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files
---------------------

The "distutils" normally install general "data files" to a platform-specific
location (e.g. `/usr/share`). This feature is intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`_, by specifying a ``Requirement`` instead of a package name::

```python
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use ``resource_filename()`` with the directory name to get a filesystem directory that then can be copied with the `"shutil"` module. (Even if your package is installed as a zipfile, calling ``resource_filename()`` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

**Automatic Resource Extraction**

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `"eager_resources"` argument to `"setup()"`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than `.dll`, `.so`, or `.dylib`, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the `"native_libs.txt"` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `"eager_resources"`, because they need to be present in the filesystem when the C extensions that link to them are used.
The `pkg_resources` runtime for compressed packages will automatically extract *all* C extensions and `eager_resources` at the same time, whenever *any* C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in `eager_resources` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of `eager_resources` being relevant to your project.

Extensible Applications and Frameworks
=====================================

.. _Entry Points:

Dynamic Discovery of Services and Plugins
----------------------------------------

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called `blogtool.parsers`, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.
If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an `.rst` file parser entry point in the `blogtool.parsers` entry point group, for our hypothetical blogging tool:

```
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```
setup(
    # ...
    entry_points = {'blogtool.parsers': ['rst = some_module:a_func']}
)
```

```
setup(
    # ...
    entry_points = ""
    [blogtool.parsers]
    .rst = some.nested.module:SomeClass.some_classmethod [reST]
    ""
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata
---------------------------

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin
developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on 'Creating distutils Extensions' for more details, especially the subsection on 'Adding new EGG-INFO Files'.

"Development Mode"

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

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special `.egg-link` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.

If you have enabled the `use_2to3` flag, then of course the `.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your Python 3 installation.
In addition, the ``develop`` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using `setup.py develop --uninstall`, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the `develop` command; see the section on the `develop` command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this:

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a baselined project

Using `setuptools`... Without bundling it!

Your users might not have `setuptools` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py` and put it in the same directory as your `setup.py` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

```
.. code-block:: python

    import ez_setup
    ez_setup.use_setuptools()
```

That's it. The `ez_setup` module will automatically download a matching version of `setuptools` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed on the target machine(s).
By the way, setuptools supports the new PyPI “upload” command, so you can use
``setup.py sdist upload`` or ``setup.py bdist_egg upload`` to upload your
source or egg distributions respectively. Your project's current version must
be registered with PyPI first, of course; you can use ``setup.py register`` to
do that. Or you can do it all in one step, e.g. ``setup.py register sdist
bdist_egg upload`` will register the package, build source and egg
distributions, and then upload them both to PyPI, where they'll be easily
found by other projects that depend on them.

(By the way, if you need to distribute a specific version of ``setuptools``,
you can specify the exact version and base download URL as parameters to the
``use_setuptools()`` function. See the function's docstring for details.)

What Your Users Should Know
---------------------------

In general, a setuptools-based project looks just like any distutils-based
project -- as long as your users have an internet connection and are installing
to ``site-packages``, that is. But for some users, these conditions don't
apply, and they may become frustrated if this is their first encounter with
a setuptools-based project. To keep these users happy, you should review the
following topics in your project's installation instructions, if they are
relevant to your project and your target audience isn't already familiar with
setuptools and ``easy_install``.

Network Access
If your project is using ``ez_setup``, you should inform users of the
need to either have network access, or to preinstall the correct version of
setuptools using the `EasyInstall installation instructions`_. Those
instructions also have tips for dealing with firewalls as well as how to
manually download and install setuptools.

Custom Installation Locations
You should inform your users that if they are installing your project to
somewhere other than the main ``site-packages`` directory, they should
first install setuptools using the instructions for `Custom Installation
Locations`_, before installing your project.

Your Project's Dependencies
If your project depends on other projects that may need to be downloaded
from PyPI or elsewhere, you should list them in your installation
instructions, or tell users how to find out what they are. While most
users will not need this information, any users who don't have unrestricted
internet access may have to find, download, and install the other projects
manually. (Note, however, that they must still install those projects
using ``easy_install``, or your project will not know they are installed,
and your setup script will try to download them again.)
If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the `--f` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use `--f` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers

Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't `easy_install`! setuptools currently supports `bdist_rpm`, `bdist_wininst`, and `bdist_dumb` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils `install` command, it should be able to work with `setuptools`. Some examples of "bdist" formats that this should work with include the `bdist_nsi` and `bdist_msi` formats for Windows.

However, packaging tools that build binary distributions by running `setup.py install` on the command line or as a subprocess will require modification to work with setuptools. They should use the `--single-version-externally-managed` option to the `install` command, combined with the standard `--root` or `--record` options. See the `install command` documentation below for more details. The `bdist_deb` command is an example of a command that currently requires this kind of patching to work with setuptools.
If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the `zip_safe` flag

For maximum performance, Python packages are best installed as zip files. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, `setuptools` can install your project as a zipfile or a directory, and its default choice is determined by the project's `zip_safe` flag.

You can pass a True or False value for the `zip_safe` argument to the `setup()` function, or you can omit it. If you omit it, the `bdist_egg` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the `bdist_egg` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no `__file__` or `__path__` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses `pkg_resources` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)

However, if `bdist_egg` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok .` or `setup.py easy_install --always-unzip .` in your project directory, to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the
"zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zip file, correct any problems if you can, and then make an explicit declaration of True or False for the zip_safe flag, so that it will not be necessary for bdist_egg or EasyInstall to try to guess whether your project can work as a zip file.

Namespace Packages
-------------------

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its __init__.py, and that it is merely a container for modules and subpackages.

The pkg_resources runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The namespace_packages argument to setup() lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this:

```python
setup(
   # ...
   namespace_packages = ['zope']
)
```

because it contains a zope.interface package that lives in the zope namespace package. Similarly, a project for a standalone zope.publisher would also declare the zope namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" zope package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's zope.app package is a namespace package, and in the future PEAK's peak.util package will be too.

Note, by the way, that your project's source tree must include the namespace packages __init__.py files (and the __init__.py of any parent packages), in a normal Python package layout. These __init__.py files *must* contain the line:

```python
__import__('pkg_resources').declare_namespace(__name__)
```
This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's ``__init__.py``. Even though it may appear to work during development, or when projects are installed as ``.egg`` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the ``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of ``__init__.py`` is loaded first. If the first loaded ``__init__.py`` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

TRANSITIONAL NOTE
~~~~~~~~~~~~~~~~~~
Setuptools automatically calls ``declare_namespace()`` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the ``pkg_resources`` runtime, and also the need for ``pkg_resources`` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing ``declare_namespace()`` calls in your ``__init__.py`` files, and you should correct these as soon as possible before the compatibility support is removed.

Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases
------------------------------------------------
When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often
need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, ``setuptools`` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (``--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (``--tag-svn-revision, -r``)

* An 8-character representation of the build date (``--tag-date, -d``), as a postrelease tag

You can add these tags by adding ``egg_info`` and the desired options to the command line ahead of the ``sdist`` or ``bdist`` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info` command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version` for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like::

```
    setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias` command, which would let each package define an alias like ``daily`` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run ``setup.py daily`` in each project.
directory. (And, you could also define sitewide or per-user default versions of the `daily` alias, so that projects that didn't define their own would use the appropriate defaults.)

Generating Source Distributions
---------------------------------

``setuptools`` enhances the distutils' default algorithm for source file selection with pluggable endpoints for looking up files to include. If you are using a revision control system, and your source distributions only need to include files that you're tracking in revision control, use a corresponding plugin instead of writing a `MANIFEST.in` file. See the section below on 'Adding Support for Revision Control Systems' for information on plugins.

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a `MANIFEST.in` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the `MANIFEST.in` file.

But, be sure to ignore any part of the distutils documentation that deals with `MANIFEST` or how it's generated from `MANIFEST.in`; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's `.egg-info` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its `sdist` command omits nearly all of the options that the distutils' more complex `sdist` process requires. For all practical purposes, you'll probably use only the `--formats` option, if you use any option at all.

Making your package available for EasyInstall
-----------------------------------------------

If you use the `register` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the `docs for the register command` for more details.)

`_docs for the register command: http://docs.python.org/dist/package-index.html`

If you also use the `upload` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.
However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

``url`` and ``download_url``
These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links.

``long_description``
EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an `#egg=project` or `#egg=project-version` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your `url` or `download_url` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either `#egg=project` or `#egg=project-version` added to the URL. You should replace `project` and `version` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the `#egg=` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., `#egg=projectname-dev`), so that users can do something like this:

```
easy_install --editable projectname==dev
```

---

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 15287
in order to check out the in-development version of `projectname`.

Managing "Continuous Releases" Using Subversion

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's `setup.cfg` file:

```ini
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell `setuptools` to generate package version numbers like `1.0a1.dev-r1263`, which will be considered to be an *older* release than `1.0a1`. Thus, when you actually release `1.0a1`, the entire egg infrastructure (including `setuptools`, `pkg_resources` and EasyInstall) will know that `1.0a1` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in `setup.py` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the `tag_build=.dev`, and always use the *last* release as a version number, so that your post-1.0 builds are labelled `1.0-r1263`, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an `#egg=projectname-dev` suffix. This allows users to request EasyInstall to download `projectname==dev` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your `install_requires` (or other requirements) to include `==dev`, e.g.:

```python
install_requires = ['OtherProject>=0.2a1.dev-r143,==dev']
```

The above example says, "I really want at least this particular development
revision number, but feel free to follow and use an `#egg=OtherProject-dev` link if you find one. This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run `setup.py develop` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the `develop` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run `setup.py develop` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from `setup.cfg`, so that you don't end up registering versions like `foobar-0.7a1.dev-r34832`. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to `setup.cfg` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

The first part of this command (`egg_info -RDb ""`) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your `setup.py`, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

    python setup.py alias -u release egg_info -RDb ""

You can then use it like this::

    python setup.py release sdist bdist_egg register upload

Or of course you can create more elaborate aliases that do all of the above.
See the sections below on the `egg_info` and `alias` commands for more ideas.

Distributing Extensions compiled with Pyrex

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, *not* ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source of your ``Extension`` objects in the setup script. ``setuptools`` will detect at build time whether Pyrex is installed or not. If it is, then ``setuptools`` will use it. If not, then ``setuptools`` will silently change the ``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx`` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original ``.pyx`` files. This means that you will probably want to include current ``.c`` files in your revision control system, rebuilding them whenever you check changes in for the ``.pyx`` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

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Command Reference
-----------------

``alias`` - Define shortcuts for commonly used commands

``alias`` - Define shortcuts for commonly used commands

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different "egg_info" tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using ``setup.py alias aliasname"
expansion”, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various \`egg_info\` tagging options::

    setup.py alias --global-config daily egg_info --tag-svn-revision \
                    --tag-build=development

Once the alias is defined, it can then be used with other setup commands, e.g.::

    setup.py daily bdist_egg       # generate a daily-build .egg file
    setup.py daily sdist          # generate a daily-build source distro
    setup.py daily sdist bdist_egg # generate both

The above commands are interpreted as if the word \``daily\`` were replaced with \`egg_info --tag-svn-revision --tag-build=development\``.

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

    setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg

redefines the \``bdist_egg`` command so that it always runs the \``rotate`` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on \``bdist_egg`` because the alias is only expanded once when used.

You can remove a defined alias with the \``--remove`` (or \``-r``) option, e.g.::

    setup.py alias --global-config --remove daily

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options`_ (listed under the `saveopts`_ command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the \``alias\`` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.
``bdist_egg`` - Create a Python Egg for the project
===================================================================
This command generates a Python Egg (``.egg`` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to ``sys.path`` directly, or they can be placed in a directory on ``sys.path`` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (``.egg-info``) directory. If you have added any extra metadata files to the ``.egg-info`` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use ``bdist_egg`` and you're done. But there are a few options that may be occasionally useful:

``--dist-dir=DIR, -d DIR``
Set the directory where the ``.egg`` file will be placed. If you don't supply this, then the ``--dist-dir`` setting of the ``bdist`` command will be used, which is usually a directory named ``dist`` in the project directory.

``--plat-name=PLATFORM, -p PLATFORM``
Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

``--exclude-source-files``
Don't include any modules' ``.py`` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any ``.py`` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a ``.py`` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package
is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

```
--keep-temp, -k
```
Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

```
--bdist-dir=DIR, -b DIR```
Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

```
--skip-build```
Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:

``develop`` - Deploy the project source in "Development Mode"

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The `develop` command works by creating an `.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.
Last, but not least, the `develop` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

```
--uninstall, -u
```

Un-deploy the current project. You may use the `--install-dir` or `--d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `--x`) option when you run `develop` to deploy the project.

```
--multi-version, -m
```

"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or EasyInstall. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `--d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-
version mode.

```````
--install-dir=DIR, -d DIR```
Set the installation directory (staging area). If this option is not
directly specified on the command line or in a distutils configuration
file, the distutils default installation location is used. Normally, this
will be the ``site-packages`` directory, but if you are using distutils
configuration files, setting things like ``prefix`` or ``install_lib``,
then those settings are taken into account when computing the default
staging area.

```````
--script-dir=DIR, -s DIR```
Set the script installation directory. If you don't supply this option
(via the command line or a configuration file), but you *have* supplied
an ``--install-dir`` (via command line or config file), then this option
defaults to the same directory, so that the scripts will be able to find
their associated package installation. Otherwise, this setting defaults
to the location where the distutils would normally install scripts, taking
any distutils configuration file settings into account.

```````
--exclude-scripts, -x```
Don't deploy script wrappers. This is useful if you don't want to disturb
existing versions of the scripts in the staging area.

```````
--always-copy, -a```
Copy all needed distributions to the staging area, even if they
are already present in another directory on ``sys.path``. By default, if
a requirement can be met using a distribution that is already available in
a directory on ``sys.path``, it will not be copied to the staging area.

```````
--egg-path=DIR```
Force the generated `.egg-link` file to use a specified relative path
to the source directory. This can be useful in circumstances where your
installation directory is being shared by code running under multiple
platforms (e.g. Mac and Windows) which have different absolute locations
for the code under development, but the same *relative* locations with
respect to the installation directory. If you use this option when
installing, you must supply the same relative path when uninstalling.

In addition to the above options, the `develop` command also accepts all of
the same options accepted by `easy_install`. If you've configured any
`easy_install` settings in your `setup.cfg` (or other distutils config
files), the `develop` command will use them as defaults, unless you override
them in a ```[develop]``` section or on the command line.

```````
`easy_install` - Find and install packages
````````
This command runs the `EasyInstall tool <easy_install.html>`_ for you. It is exactly
equivalent to running the `easy_install` command. All command line arguments
following this command are consumed and not processed further by the distutils,
so this must be the last command listed on the command line. Please see
the EasyInstall documentation for the options reference and usage examples.
Normally, there is no reason to use this command via the command line, as you
can just use `easy_install` directly. It's only listed here so that you know
it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your `setup.cfg` or other distutils config
  files.

.. _egg_info:

``egg_info`` - Create egg metadata and set build tags
=====================================================

This command performs two operations: it updates a project's `.egg-info`
metadata directory (used by the `bdist_egg`, `develop`, and `test`
commands), and it allows you to temporarily change a project's version string,
to support "daily builds" or "snapshot" releases. It is run automatically by
the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands
in order to update the project's metadata, but you can also specify it
explicitly in order to temporarily change the project's version string while
executing other commands. (It also generates the `.egg-info/SOURCES.txt`
manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and
required by `pkg_resources`, this command can be extended to write other
metadata files as well, by defining entry points in the `egg_info.writers`
group. See the section on `Adding new EGG-INFO Files` below for more details.
Note that using additional metadata writers may require you to include a
`setup_requires` argument to `setup()` in order to ensure that the desired
writers are available on `sys.path`.

Release Tagging Options
-----------------------

The following options can be used to modify the project's version string for
all remaining commands on the setup command line. The options are processed
in the order shown, so if you use more than one, the requested tags will be
added in the following order:
Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off --tag-build and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `--tag-build=""` as an argument to the `egg_info` command.

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form "-rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If there is no `PKG-INFO` file, or the version number contained therein does not end with ".r" and a number, then ".r0" is used.

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.

Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools.)
like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other `egg_info` Options
------------------------
``--egg-base=SOURCEDIR, -e SOURCEDIR``
Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a `src` or `lib` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `package_dir` argument to the `setup()` function, if any. If there is no `package_dir` set, this option defaults to the current directory.

`egg_info` Examples
-------------------
Creating a dated "nightly build" snapshot egg:

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default tags are specified in `setup.cfg`:

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

(Notice that `egg_info` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. _install command:
``install`` - Run `easy_install` or old-style installation
============================================================================
The setuptools `install` command is basically a shortcut to run the `easy_install` command on the current project. However, for convenience in creating "system packages" of setuptools-based projects, you can also use this option:
This boolean option tells the `install` command to perform an "old style" installation, with the addition of an `.egg-info` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the `--root` or `--record` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when `install` is invoked by another distutils command, so that commands like `bdist_wininst` and `bdist_rpm` will create system packages of eggs. It is also automatically in effect if you specify the `--root` option.

`install_egg_info` - Install an `.egg-info` directory in `site-packages`
==============================================================================

Setuptools runs this command as part of `install` operations that use the `--single-version-externally-managed` options. You should not invoke it directly; it is documented here for completeness and so that distutils extensions such as system package builders can make use of it. This command has only one option:

`--install-dir=DIR, -d DIR`

The parent directory where the `.egg-info` directory will be placed. Defaults to the same as the `--install-dir` option specified for the `install_lib` command, which is usually the system `site-packages` directory.

This command assumes that the `.egg_info` command has been given valid options via the command line or `setup.cfg`, as it will invoke the `.egg_info` command and use its options to locate the project's source `.egg-info` directory.

`.rotate` - Delete outdated distribution files
==============================================================================

As you develop new versions of your project, your distribution (`dist`) directory will gradually fill up with older source and/or binary distribution files. The `.rotate` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

`--match=PATTERNLIST, -m PATTERNLIST`

Comma-separated list of glob patterns to match. This option is *required*. The project name and `*` is prepended to the supplied patterns, in order
to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like ``.zip`` or ``.egg`` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``

Number of matching distributions to keep. For each group of files identified by a pattern specified with the ``--match`` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

``--dist-dir=DIR, -d DIR``

Directory where the distributions are. This defaults to the value of the ``bdist`` command's ``--dist-dir`` option, which will usually be the project's `dist` subdirectory.

**Example 1**: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::

    setup.py rotate --match=.tar.gz --keep=3

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

    setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1

.. _saveopts:

``saveopts`` - Save used options to a configuration file

Finding and editing `distutils` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the `saveopts` command. Just add it to the command line to save the options you used. For example, this command builds the project using the `mingw32` C compiler, then saves the --compiler setting as the default for future builds (even those run implicitly by the `install` command)::

    setup.py build --compiler=mingw32 saveopts

The `saveopts` command saves all options for every command specified on the command line to the project's local `setup.cfg` file, unless you use one of the `configuration file options` to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration::

``saveopts`` - Save used options to a configuration file
setup.py build --compiler=mingw32 saveopts -g

Note that it doesn't matter where you place the ``saveopts`` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example:

setup.py saveopts -g build --compiler=mingw32

Note, however, that all of the commands specified are always run, regardless of where ``saveopts`` is placed on the command line.

Configuration File Options
--------------------------

Normally, settings such as options and aliases are saved to the project’s local ``setup.cfg`` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``
Save settings to the global ``distutils.cfg`` file inside the ``distutils`` package directory. You must have write access to that directory to use this option. You also can't combine this option with ``-u`` or ``-f``.

``--user-config, -u``
Save settings to the current user's ``~/.pydistutils.cfg`` (POSIX) or ``$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option with ``-g`` or ``-f``.

``--filename=FILENAME, -f FILENAME``
Save settings to the specified configuration file to use. You can't combine this option with ``-g`` or ``-u``. Note that if you specify a non-standard filename, the ``distutils`` and ``setuptools`` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other ``setuptools`` commands that modify configuration files, such as the `alias`_ and `setopt`_ commands.

``setopt`` - Set a distutils or setuptools option in a config file

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to
remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to `mingw32` (using long option names):

```
setup.py setopt --command=build --option=compiler --set-value=mingw32
```

**Example 2**. Remove any setting for the distutils default package installation directory (short option names):

```
setup.py setopt -c install -o install_lib -r
```

Options for the `setopt` command:

```
--command=COMMAND, -c COMMAND
Command to set the option for. This option is required.

--option=OPTION, -o OPTION
The name of the option to set. This option is required.

--set-value=VALUE, -s VALUE
The value to set the option to. Not needed if `--remove` is set.

--remove, -r
Remove (unset) the option, instead of setting it.
```

In addition to the above options, you may use any of the `configuration file options` (listed under the `saveopts` command, above) to determine which distutils configuration file the option will be added to (or removed from).

.. _test:

```
test - Build package and run a unittest suite
```

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the `develop` command. The `test` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on `sys.path`, after first running `build_ext -i` and `egg_info` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a `unittest`
test suite by either a function, a `"TestSuite"` class or method, or a module or package containing `"TestSuite"` classes. If the named suite is a module, and the module has an `"additional_tests()"` function, it is called and the result (which must be a `"unittest.TestSuite"`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `"test_loader"`, the rules for processing the chosen `"test_suite"` may differ; see the `test_loader` documentation for more details.)

Note that many test systems including `"doctest"` support wrapping their non-`"unittest"` tests in `"TestSuite"` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the `"unittest"` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the `"-q"` or `"--quiet"` option, either as a global option to the setup script (e.g. `"setup.py -q test"`) or as an option for the `"test"` command itself (e.g. `"setup.py test -q"`). There is one other option available:

`"--test-suite=NAME, -s NAME"`

Specify the test suite (or module, class, or method) to be run (e.g. `"some_module.test_suite"`). The default for this option can be set by giving a `"test_suite"` argument to the `"setup()"` function, e.g.:

```python
setup(
    # ...
    test_suite = "my_package.tests.test_all"
)
```

If you did not set a `"test_suite"` in your `"setup()"` call, and do not provide a `"--test-suite"` option, an error will occur.

`.. _upload:`

``upload`` - Upload source and/or egg distributions to PyPI
``
=================================================================================================

The `"upload"` command is implemented and `documented` `<https://docs.python.org/3.1/distutils/uploading.html>`_ in distutils.

Setuptools augments the `"upload"` command with support for `"keyring` `<https://pypi.python.org/pypi/keyring>`_, allowing the password to be stored in a secure
location and not in plaintext in the .pypirc file. To use
keyring, first install keyring and set the password for
the relevant repository, e.g.::

    python -m keyring set <repository> <username>
    Password for '<username>' in '<repository>': ********

Then, in .pypirc, set the repository configuration as normal,
but omit the password. Thereafter, uploads will use the
password from the keyring.

New in 20.1: Added keyring support.

.. _upload_docs:

``upload_docs`` - Upload package documentation to PyPI

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

PyPI now supports uploading project documentation to the dedicated URL
https://pythonhosted.org/<project>/.

The ``upload_docs`` command will create the necessary zip file out of a
documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version
must already be registered with PyPI, using the distutils `register`
command -- just like the `upload` command.

Assuming there is an ``Example`` project with documentation in the
subdirectory ``docs``, e.g.::

    Example/
    |-- example.py
    |-- setup.cfg
    |-- setup.py
    |-- docs
    |  |-- build
    |  |  `-- html
    |  |  |  |-- index.html
    |  |  |  `-- tips_tricks.html
    |  |-- conf.py
    |  |-- index.txt
    |  `-- tips_tricks.txt

You can simply pass the documentation directory path to the `upload_docs`
command::

    python setup.py upload_docs --upload-dir=docs/build/html
If no ``--upload-dir`` is given, ``upload_docs`` will attempt to run the ``build_sphinx`` command to generate uploadable documentation. For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_ must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful defaults in the ``setup.cfg`` of your Python project, e.g.:

```
.. code-block:: ini

    [upload_docs]
    upload-dir = docs/build/html
```

The ``upload_docs`` command has the following options:

```
```
--upload-dir`

The directory to be uploaded to the repository.

```
```
--show-response`

Display the full response text from server; this is useful for debugging PyPI problems.

```
```
--repository=URL, -r URL`

The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).

Extending and Reusing Setuptools
--------------------------------

Creating `distutils` Extensions
================================

It can be hard to add new commands or setup arguments to the distutils. But the `setuptools` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their `setup_requires` argument.

With `setuptools`, your distutils extension projects can hook in new commands and `setup()` arguments just by defining `entry points`. These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins`_ above for some more background on entry points.)

Adding Commands
You can add new `setup` commands by defining entry points in the `distutils.commands` group. For example, if you wanted to add a `foo` command, you might add something like this to your distutils extension project's setup script:

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the `--command-packages` option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the distutils to search for entry points in the active distributions on `sys.path`. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

Adding `setup()` Arguments

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your distutils extension project's setup script:

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it’s supplied. The `Distribution` object will have the initial value of the attribute set to `None`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here’s an example validation function:

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr, value)
        )
```

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

### Adding new EGG-INFO Files

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in the plugins’ EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects’ setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers`
Here's a simple example of a distutils extension defining a setup argument ``foo_bar``, which is a list of lines that will be written to ``foo_bar.txt`` in the EGG-INFO directory of any project that uses the argument::

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '
'.join(value)+'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, ``egg_info.writers`` entry points must be a function taking three arguments: a ``egg_info`` command instance, the basename of the file to write (e.g. ``foo_bar.txt``), and the actual full filename that should be written to.

In general, writer functions should honor the command object's `dry_run` setting when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the `cmd` object's `write_file()`, `delete_file()`, and `write_or_delete_file()` methods exclusively for your file operations. See those methods' docstrings for more details.

### Adding Support for Revision Control Systems

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:
- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked by another revision control system, you can do so by adding an entry point to the `setupools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```python
def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this:

```python
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `setup_requires`. When you create a source distribution with the `sdist` command, setuptools automatically records what files were found in the `SOURCES.txt` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named ``some/dir`` under the current directory should NOT be rendered as `./some/dir` or
``/somewhere/some/dir``, but *always* as simply ``some/dir``

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully
  with the absence of needed programs (i.e., ones belonging to the revision
  control system itself. It *may*, however, use ``distutils.log.warn()`` to
  inform the user of the missing program(s).

Subclassing ``Command``
-----------------------

Sorry, this section isn't written yet, and neither is a lot of what's below
this point.

XXX

Reusing ``setuptools`` Code
===========================

``ez_setup``
------------

XXX

``setuptools.archive_util``
---------------------------

XXX

``setuptools.sandbox``
----------------------

XXX

``setuptools.package_index``
----------------------------

XXX

Mailing List and Bug Tracker
============================

Please use the `distutils-sig mailing list`_ for questions and discussion about
setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

Found in path(s):
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20.7.0-orig-1-tar-gz/setuptools-20.7.0/docs/setuptools.txt
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20.7.0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/pyparsing.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: setuptools
Version: 20.7.0
Summary: Easily download, build, install, upgrade, and uninstall Python packages
Home-page: https://github.com/pypa/setuptools
Author: Python Packaging Authority
Author-email: distutils-sig@python.org
License: UNKNOWN
Description: ===============================
Installing and Using SetupTools

`Change History <https://pythonhosted.org/setuptools/history.html>`_

Installation Instructions

The recommended way to bootstrap setuptools on any system is to download
`ez_setup.py`_ and run it using the target Python environment. Different
operating systems have different recommended techniques to accomplish this basic routine, so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools on Python 2.4 or Python 2.5, use the `bootstrap script for Setuptools 1.x <https://raw.githubusercontent.com/pypa/setuptools/bootstrap-py24/ez_setup.py>`_.

The link provided to `ez_setup.py` is a bookmark to bootstrap script for the latest known stable release.

.. _ez_setup.py: https://bootstrap.pypa.io/ez_setup.py

Windows (Powershell 3 or later)
==============================

For best results, uninstall previous versions FIRST (see `Uninstalling`_).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple Powershell command. Start up Powershell and paste this command::

```powershell
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -
```

You must start the Powershell with Administrative privileges or you may choose to install a user-local installation::

```powershell
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python - --user
```

If you have Python 3.3 or later, you can use the `py` command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed::

```powershell
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -
```

The recommended way to install setuptools on Windows is to download `ez_setup.py` and run it. The script will download the appropriate distribution file and install it for you.

Once installation is complete, you will find an `easy_install` program in your Python `Scripts` subdirectory. For simple invocation and best results, add this directory to your `PATH` environment variable, if it is not already present. If you did a user-local install, the `Scripts` subdirectory is `\$env:APPDATA\Python\Scripts`.

Windows (simplified)
====================
For Windows without PowerShell 3 or for installation without a command-line, download `ez_setup.py` using your preferred web browser or other technique and “run” that file.

Unix (wget)

Most Linux distributions come with wget.

Download `ez_setup.py` and run it using the target Python version. The script will download the appropriate version and install it for you::

> wget https://bootstrap.pypa.io/ez_setup.py -O - | python

Note that you will may need to invoke the command with superuser privileges to install to the system Python::

> wget https://bootstrap.pypa.io/ez_setup.py -O - | sudo python

Alternatively, SetupTools may be installed to a user-local path::

> wget https://bootstrap.pypa.io/ez_setup.py -O - | python - --user

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.ssl.fastly.net` does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter similar problems using `wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see `Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>`). If you happen to encounter them, install Setuptools as follows::

> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure

Unix including Mac OS X (curl)

If your system has curl installed, follow the `wget` instructions but replace `wget` with `curl` and `-O` with `--o`. For example::

> curl https://bootstrap.pypa.io/ez_setup.py --o - | python
Advanced Installation
=========================

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source tarball from `Setuptools on PyPI <https://pypi.python.org/pypi/setuptools>`_ and run setup.py with any supported distutils and Setuptools options.

For example::

    setuptools-x.x$ python setup.py install --prefix=/opt/setuptools

Use ``--help`` to get a full options list, but we recommend consulting the `EasyInstall manual` for detailed instructions, especially `the section on custom installation locations`.

.. _EasyInstall manual: https://pythonhosted.org/setuptools/EasyInstall
.. _the section on custom installation locations: https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations

Downloads
========

All setuptools downloads can be found at `the project's home page in the Python Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: https://pypi.python.org/pypi/setuptools

In addition to the PyPI downloads, the development version of ``setuptools`` is available from the `Bitbucket repo`_, and in-development versions of the `0.6 branch`_ are available as well.

.. _Bitbucket repo: https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev
.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

Uninstalling
============

On Windows, if Setuptools was installed using an ``.exe`` or ``.msi`` installer, simply use the uninstall feature of ``Add/Remove Programs`` in the Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python version, delete all ``setuptools*`` and ``distribute*`` files and directories from your system's ``site-packages`` directory (and any other ``sys.path`` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute,
nothing further needs to be done. If you want to completely remove Setuptools, you may also want to remove the 'easy_install' and 'easy_install-x.x' scripts and associated executables installed to the Python scripts directory.

--------------------------------
Using Setuptools and EasyInstall
--------------------------------

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *tested* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: https://github.com/pypa/setuptools/issues
.. _The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html
.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

-------
Credits
-------

* The original design for the "`.egg`" format and the "`pkg_resources`" API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of "`pkg_resources`", and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various open source used in HyperFlex HX Data Platform 5.0(1a) 15315
aspects of "easy_install", and supplied the doctests for the command-line ".exe" wrappers on Windows.

* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

* Tarek Ziad is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation, and addressed many defects.

* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.. _files:

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

Code of Conduct
-------------------

Everyone interacting in the setuptools project's codebases, issue trackers, chat rooms, and mailing lists is expected to follow the
`PyPA Code of Conduct`_


Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.
package spec
import "testing"
func TestIntegrationLicense(t *testing.T) {
license := License{Name: "the name", URL: "the url"}
const licenseJSON = `{"name":"the name","url":"the url"}`
const licenseYAML = "name: the name\nurl: the url\n"
assertSerializeJSON(t, license, licenseJSON)
assertParsesJSON(t, licenseJSON, license)
}
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// limitations under the License.

package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject

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

1.1392 jcl-over-slf4j 1.7.22
1.1392.1 Available under license:
    MIT License
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1.1393 slf4j-log4j 1.7.0
1.1393.1 Available under license:
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* /opt/ws_local/PERMITS_SQL/1016791210_1591897084.18/0/slf4j-log4j12-1-7-0-sources-
  jar/org/slf4j/impl/StaticMDCBinder.java
* /opt/ws_local/PERMITS_SQL/1016791210_1591897084.18/0/slf4j-log4j12-1-7-0-sources-
  jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/ws_local/PERMITS_SQL/1016791210_1591897084.18/0/slf4j-log4j12-1-7-0-sources-
  jar/org/slf4j/impl/Log4jLoggerAdapter.java
* /opt/ws_local/PERMITS_SQL/1016791210_1591897084.18/0/slf4j-log4j12-1-7-0-sources-
  jar/org/slf4j/impl/Log4jMDCAdapter.java
* /opt/ws_local/PERMITS_SQL/1016791210_1591897084.18/0/slf4j-log4j12-1-7-0-sources-
  jar/org/slf4j/impl/Log4jLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1016791210_1591897084.18/0/slf4j-log4j12-1-7-0-sources-
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1.1394 pam 1.1.8-3.2ubuntu2

1.1394.1 Available under license:

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

1.1395 iproute 4.3.0 1ubuntu3.16.04.3

1.1395.1 Available under license:
This is the Debian GNU/Linux's prepackaged version of the Linux Traffic Control engine and related utils, "iproute2"

The source code was obtained from
http://kernel.org/pub/linux/utils/net/iproute2/
The former upstream was
http://devresources.linuxfoundation.org/dev/iproute2/download/
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm
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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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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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Bit Twiddling Hacks

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https://github.com/santoshsahoo/nbench (mirror of the same code)

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0f2bab5b6.

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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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- $Id$ -->

<!-- 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="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>

  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>

  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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</xsl:text>
</xsl:variable>
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1.1410 libevent 2.1.8-stable-4build1

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1.1411 cyrus-sasl 2.1.26.dfsg1-14ubuntu0.2

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1.1413 d-bus 1.10.6

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* javax.annotation:javax.annotation-api
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* java.sun.security.ssl

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OW2

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org.ow2.asm:asm-commons
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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [@link AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
* version.
* @param owner
* the owner's class name.
* @param access
* the method's access flags (see [@link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type Type]).
* @param mv
* the method visitor to which this adapter delegates calls. May
/**
 * Creates a new [link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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*/
/**
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 */
* the method's access flags (see [ @link Opcodes ]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [ @link Type Type ]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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 */
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * @param mv
 * * the <code>MethodVisitor</code> to send the resulting inlined
 * * method code to (use <code>null</code> for none).
 * @param access
 * * the method's access flags (see @link Opcodes). This
 * * parameter also indicates if the method is synthetic and/or
 * * deprecated.
 * @param name
 * * the method's name.
 * @param desc
 * * the method's descriptor (see @link Type)).
/**
 * Constructs a new LocalVariableAnnotationNode. <i>Subclasses must not use this constructor</i>. Instead, they must use the
 * @link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String})
 */

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 */

/*
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 * @param exceptions
 * the internal names of the method's exception classes (see
 * ( @link Type#getInternalName() getInternalName )). May be
 * <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */
* version.

* @param typeRef
* a reference to the annotated type. See {@link TypeReference}.

* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* <tt>null</tt> if the annotation targets 'typeRef' as a whole.

* @param start
* the first instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).

* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.

* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.

* @param desc
* the class descriptor of the annotation class.

*/

Found in path(s):
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 */
/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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/**  
* Constructs a new {@link ClassNode}. <i>Subclasses must not use this  
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*  
* @throws IllegalStateException  
*     If a subclass calls this constructor.  
*/

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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h/SoDBench.cs#L738
<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
  </PropertyGroup>
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1.1429 dstat 0.7.2 4

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1.1430 iputils 20121221-5ubuntu2

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Upstream Author: Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>

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// Original can be found at:
// https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01

// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])

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# spdx-license-ids


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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/getting-started/what-is-npm):

```bash
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

```javascript
## require('spdx-license-ids')
```
Type: `<Array<string>>`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', ...

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')

Type: `<Array<string>>`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-3.0', 'eCos-2.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', ...

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
...
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
      'license is similar to the valid expression "Apache-2.0"'
  }
```

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 15986
SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('GPL-3.0-only OR BSD-2-Clause'),
  validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
  ]
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('MIT OR LicenseRef-Made-Up'),
  warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {}

```
If there aren't any licensing terms, use 'UNLICENSED':

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

1.1435 pcsc-lite 1.8.14-1ubuntu1.16.04.1

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1.1445 llvm 4.0.0

1.1445.1 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
%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
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {  
; \ CHECK-LABEL: avg_v64i8_512:   
; \ CHECK:\ \ \ # \ %bb.0:  
; \ CHECK-NEXT: vmovdqa64 (%rsi), %zmm0  
; \ CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0  
; \ CHECK-NEXT: vmovdqu64 %zmm0, (%rax)  
; \ CHECK-NEXT: vzeroupper  
; \ CHECK-NEXT: retq  
    %1 = load <64 x i8>, <64 x i8>* %a  
    %2 = load <64 x i8>, <64 x i8>* %b  
    %3 = zext <64 x i8> %1 to <64 x i32>  
    %4 = zext <64 x i8> %2 to <64 x i32>  
    %5 = add nuw nsw <64 x i32> %3, %4  
    %6 = add nuw nsw <64 x i32> %5, %4  
    %7 = lshr <64 x i32> %6, %7  
    %8 = trunc <64 x i32> %7 to <64 x i8>  
    store <64 x i8> %8, <64 x i8>* undef, align 4  
    ret void  
}  

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {  
; \ CHECK-LABEL: pmaddwd_32_256:   
; \ CHECK:\ \ \ # \ %bb.0:  
; \ CHECK-NEXT: vmovdqa %rdi, %ymm0  
; \ CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
; \ CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0  
; \ CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1  
; \ CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)  
; \ CHECK-NEXT: vmovdqa %ymm0, (%rdx)  
; \ CHECK-NEXT: vzeroupper  
}  

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 16059
; CHECK-NEXT:  retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}
define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:  vmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}
define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT:  vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
 define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {  
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK: 
; CHECK-NEXT: vmovdq64 (%rdi), %zmm0  
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0  
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq

; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq

; CHECK-NEXT: %x = load <64 x i8>, <64 x i8>* %xptr  
; CHECK-NEXT: %y = load <64 x i8>, <64 x i8>* %yptr  
; CHECK-NEXT: %cmp = icmp ult <64 x i8> %x, %y  
; CHECK-NEXT: %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x  
; CHECK-NEXT: %res = sub <64 x i8> %max, %y  
; CHECK-NEXT: store <64 x i8> %res, <64 x i8>* %zptr  
ret void  
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {  
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK: 
; CHECK-NEXT: movl %edx, %eax  
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0  
; CHECK-NEXT: xorl %ecx, %ecx  
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1  
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2  
; CHECK-NEXT: .p2align 4, 0x90

; CHECK-NEXT: .LBB8_1: # %vector.body  
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3  
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4  
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5  
; CHECK-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3  
; CHECK-NEXT: vpaddd %ymm1, %ymm3, %ymm1  
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm3  
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3  
; CHECK-NEXT: vpaddd %ymm1, %ymm3, %ymm1  

; CHECK-NEXT: }
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %1, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width="512" {  
    ; CHECK-LABEL: _Z9test_charPcS_i_512:  
    ; CHECK: # %bb.0: # %entry  
    ; CHECK-NEXT: movl %edx, %eax  
    ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0  
    ; CHECK-NEXT: xorl %ecx, %ecx  
    ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1  
    ; CHECK-NEXT: .p2align 4, 0x90  
    ; CHECK-NEXT:  .LBB9_1: # %vector.body  
    ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1  
    ; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2  
    ; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3  
    ; CHECK-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2  
    ; CHECK-NEXT: addq $32, %rcx  
    ; CHECK-NEXT: cmpq %rcx, %rax  
    ; CHECK-NEXT: jne .LBB9_1  
    ; CHECK-NEXT: vpaddd %zmm1, %zmm2, %zmm1  
    ; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0  
    ; CHECK-NEXT: vpadd %zmm0, %zmm1, %zmm0  
    ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1  
    ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0  
    ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0  
    ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1  
    ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0  
    ; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0  
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]  
    ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0  
    ; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0  
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]  
    ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0  
    ret i32 %13  
}
entry:

%3 = zext i32 %2 to i64
br label %vector.body

vector.body:

%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi [ %32 x i32> [ %11, %vector.body ], [ zero initializer, %entry ]
%4 = getelementptr inbounds i8, i8* %i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %i8, i8* %0, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:

%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde...
define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sad_16i8_256:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB10_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm2
    ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:    vmovd %xmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    entry:
    br label %vector.body
}

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>

@c = global [1024 x i8] zeroinitializer, align 16
@c = global [1024 x i8] zeroinitializer, align 16

%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitialize, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [%10, %vector.body]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef efficiency
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, 0
ret i32 %12

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB11_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT:  vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  addq $4, %rax
; CHECK-NEXT:  jne .LBB11_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %ymm1

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; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpsshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpsshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
    br label %vector.body

vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
    %2 = zext <16 x i8> %wide.load to <16 x i32>
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
    %4 = bitcast i8* %3 to <16 x i8>*
    %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
    %5 = zext <16 x i8> %wide.load1 to <16 x i32>
    %6 = sub nsw <16 x i32> %2, %5
    %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
    %8 = sub nsw <16 x i32> zeroinitializer, %6
    %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
    %10 = add nsw <16 x i32> %9, %vec.phi
    %index.next = add i64 %index, 1024
    br i1 %11, label %middle.block, label %vector.body

middle.block:
    %.lcssa = phi <16 x i32> [ %10, %vector.body ]
    %rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
    %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
    %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
    %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
define void @sbtot16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: sbtot16f32_256:
    ; CHECK:
    # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:  vpmovmd %k1, %ymm0
    ; CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT:  vpmovmd %k0, %ymm1
    ; CHECK-NEXT:  vcvtdq2ps %ymm1, %ymm1
    ; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbtot16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {  
    ; CHECK-LABEL: sbtot16f32_512:
    ; CHECK:
    # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  vpmovmd %k0, %zmm0
    ; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbtot16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: sbtot16f64_256:
    ; CHECK:
    # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:  vpmovmd %k1, %ymm0
    ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store %1, <16 x double>* %res
    ret void
}
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define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vcvtqd2pd %ymm0, %zmm1
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm1
    ; CHECK-NEXT:    vpsrld $31, %ymm1, %ymm1
    ; CHECK-NEXT:    vcvtqd2ps %ymm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm1
    ; CHECK-NEXT:    vpsrld $31, %ymm1, %ymm1
    ; CHECK-NEXT:    vcvtqd2ps %ymm1, %ymm1
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
} }

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %k1
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtqd2pd %ymm0, %ymm0
    ; CHECK-NEXT:    vextracti64x4 $1, %ymm0, %ymm0
    ; CHECK-NEXT:    vcvtqd2ps %ymm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm1
    ; CHECK-NEXT:    vpsrld $31, %ymm1, %ymm1
    ; CHECK-NEXT:    vcvtqd2ps %ymm1, %ymm1
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm1
    ; CHECK-NEXT:    vpsrld $31, %ymm1, %ymm1
    ; CHECK-NEXT:    vcvtqd2ps %ymm1, %ymm1
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
} }
define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vpsrl $31, %zmm0, %zmm0
; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
;%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vpsrl $31, %ymm0, %ymm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm2
; CHECK-NEXT:  vpsrl $31, %ymm2, %ymm2
; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:  vmovaps %ymm3, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
;%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: cvtqd2pd %ymm0, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: cvtqd2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK: # %bb.0:
; CHECK-NEXT: cvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: cvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK: # %bb.0:
; CHECK-NEXT: cvttps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT:    vpmovd2m %ymm1, %k0
    ; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpmovd2m %ymm1, %k1
    ; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} [z]
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32tosb_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} [z]
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: mul256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
        ymm2[8], ymm0[8], ymm2[9], ymm0[9], ymm2[10], ymm0[10], ymm2[11], ymm0[11], ymm2[12], ymm0[12], ymm2[13]
        , ymm0[13], ymm2[14], ymm0[14], ymm2[15], ymm0[15], ymm2[24], ymm0[24], ymm2[25], ymm0[25], ymm2[26], ym
m0[26],ymm2[27],ymmm0[27],ymm2[28],ymmm0[28],ymm2[29],ymmm0[29],ymm2[30],ymmm0[30],ymm2[31],ymmm0[31]

; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 =
    ymm0[8,9,9,10,10,11,11,12,13,13,14,14,15,15,24,24,25,25,25,26,26,27,27,28,28,29,29,30,31,31]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 =
; CHECK-NEXT: vpmullw %ymmm0, %ymm5, %ymmm4
; CHECK-NEXT: vmovdqa {{.*#+}} ymm5 =
    ymm2[0],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm0 =
    ymm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT: vpmullw %ymmm2, %ymmm0, %ymmm0
; CHECK-NEXT: vpackuswb %ymmm4, %ymmm0, %ymmm0
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm2 =
    ymm3[0],ymm0[1],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23]
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm1 =
    ymm1[0],ymm0[1],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[5],ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23]
; CHECK-NEXT: vpmullw %ymmm3, %ymmm1, %ymmm1
; CHECK-NEXT: vpackuswb %ymmm2, %ymmm1, %ymmm1
; CHECK-NEXT: vmovdqa %ymmm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: mul512:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm2 =
        zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
        zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0
        [26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],z
        mm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[45],
        zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],z
        mm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[63]
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm3 =
        zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
        2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
    ; CHECK-NEXT: vpunpcklbw {{.*#+}} zmm1 =
        zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5]
        ,zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19]
        ,zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm0
        [32],zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],
        zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50],zmm1
        [51],zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55]
    ; CHECK-NEXT: vpunpcklbw {{.*#+}} zmm0 =
        zmm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
        6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
    ; CHECK-NEXT: vpunpcklbw {{.*#+}} %zmm0 =
        %zmm1[0],%zmm0[0],%zmm1[1],%zmm0[1],%zmm1[2],%zmm0[2],%zmm1[3],%zmm0[3],%zmm1[4],%zmm0[4],%zmm1[5],%zmm0
        [5],%zmm1[6],%zmm0[6],%zmm1[7],%zmm0[7],%zmm1[16],%zmm0[16],%zmm1[17],%zmm0[17],%zmm1[18],%zmm0[18],%zmm1
        [19],%zmm0[19],%zmm1[20],%zmm0[20],%zmm1[21],%zmm0[21],%zmm1[22],%zmm0[22],%zmm1[23],%zmm0[23],%zmm1
        [32],%zmm0[32],%zmm1[33],%zmm0[33],%zmm1[34],%zmm0[34],%zmm1[35],%zmm0[35],%zmm1[36],%zmm0[36],%zmm1
        [37],%zmm0[37],%zmm1[38],%zmm0[38],%zmm1[39],%zmm0[39],%zmm1[48],%zmm0[48],%zmm1[49],%zmm0[49],%zmm1
        [50],%zmm0[50],%zmm1[51],%zmm0[51],%zmm1[52],%zmm0[52],%zmm1[53],%zmm0[53],%zmm1[54],%zmm0[54],%zmm1
        [55],%zmm0[55]
    ; CHECK-NEXT: vpmullw %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqa64 (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %d = load <64 x i8>, <64 x i8>* %a
    %e = load <64 x i8>, <64 x i8>* %b
    %f = mul <64 x i8> %d, %e
    store <64 x i8> %f, <64 x i8>* %c
    ret void
}
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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'zext256'
  ; VEC256-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
  ; ; VEC512-LABEL: 'zext256'
  ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
define void @zext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'zext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
  %E = zext <32 x i8> undef to <32 x i16>
  ret void
}

define void @sext256() "min-legal-vector-width"="256" {
  %A = sext <8 x i8> undef to <8 x i64>
  %B = sext <8 x i16> undef to <8 x i64>
  %C = sext <8 x i32> undef to <8 x i64>
  %D = sext <16 x i8> undef to <16 x i32>
  %E = sext <16 x i16> undef to <16 x i32>
  %F = sext <32 x i8> undef to <32 x i16>
  ret void
}

define void @sext512() "min-legal-vector-width"="256" {
  %A = sext <8 x i8> undef to <8 x i64>
  %B = sext <8 x i16> undef to <8 x i64>
  %C = sext <8 x i32> undef to <8 x i64>
  %D = sext <16 x i8> undef to <16 x i32>
  %E = sext <16 x i16> undef to <16 x i32>
  %F = sext <32 x i8> undef to <32 x i16>
  ret void
}
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'sext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; SKX256-LABEL: 'sext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; VEC512-LABEL: 'sext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

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*/

; 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
    ]
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

%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) {
 ; 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: 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>  
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
}

; RUN: opt %s -inline -S | FileCheck %s
define internal void @innerSmall() "min-legal-vector-width"="128" {  
ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {  
ret void
}

define internal void @innerNoAttribute() {  
ret void
}

; We should not add an attribute during inlining. No attribute means unknown.  
; Inlining doesn't change the fact that we don't know anything about this  
; function.
define void @outerNoAttribute() {  
call void @innerLarge()  
ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {  
call void @innerLarge()  
ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {  
call void @innerSmall()  
ret void
}
We should remove the attribute after inlining since the callee's vector width requirements are unknown.

```c
define void @outerAttribute() "min-legal-vector-width"="128" {
  call void @innerNoAttribute()
  ret void
}
```

Also check that an constant used as value to be stored rather than pointer in a store instruction is hoisted.

```c
; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

Check that for i8 type, the maximum legal offset is 31.

; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
; CHECK-NEXT:  %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %[[M4:const_mat[0-9]?]] = add i32 %[[M3]], 31
; CHECK-NEXT:  %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT:  store i8 %7, i8* %11
; CHECK-NEXT:  %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT:  store i8 %5, i8* %12
; CHECK-NEXT:  %13 = inttoptr i32 %[[M5]] to i8*
```
define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr(i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr(i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr(i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr(i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr(i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr(i32 805874688 to i16*)
  %1 = load volatile i16, i16* inttoptr(i32 805874692 to i16*)
  %2 = load volatile i16, i16* inttoptr(i32 805874719 to i16*)
  %3 = load volatile i16, i16* inttoptr(i32 805874720 to i16*)
  %4 = load volatile i16, i16* inttoptr(i32 805874727 to i16*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr(i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr(i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr(i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

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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
; 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 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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1.1446 jackson-dataformat-xml 2.4.5

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### 1.1447 kerb-common 2.0.0

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1.1448 coreapi 1.0.0
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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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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.

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

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

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

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

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

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

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

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

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

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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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1.1450 libsemanage 2.3 1build3

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

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

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

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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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# Contributions to the urllib3 project

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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 <http://github.com/georgemarshall>
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- 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 <http://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 <http://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 <http://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 <abacabadabacaba@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

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* 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 `HTTPRequest.stream()`.

* 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.

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C. Copyright (C) 2000 by Martin Pool <mbp@humbug.org.au>

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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1.1457 kerberos 3.1

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  cmd/krb5/slave/kropd_rpc.c
  lib/gss_mechs/mech_krb5/et/kdb5_err.c
  lib/gss_mechs/mech_spnego/mecg/gssapiP_spnego.h
  lib/gss_mechs/mech_spnego/mecg/spnego_mech.c
  lib/krb5/kadm5/kadm_host_srv_names.c
  lib/krb5/kdb/kdb_convert.c
  lib/krb5/kdb/kdb_hdr.h
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  lib/krb5/kdb/kdb_log.h
  lib/libgss/g_accept_sec_context.c
  lib/libgss/g_acquire_cred.c
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  lib/libgss/g_exp_sec_context.c
  lib/libgss/g_export_name.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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lib/gssapi/mechglue/g_imp_sec_context.c
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lib/gssapi/mechglue/g_inquire_cred.c
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lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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1.1460 gpm 1.20.4

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The Python libraries can be installed manually using the provided setup.py file, or automatically using the install hook provided via autoconf/automake.
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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1.1482 glibc 2.23-0ubuntu9

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Description: Don't warn for _BSD_SOURCE || _SVID_SOURCE, drop post-vivid
Author: Adam Conrad <adconrad@ubuntu.com>

--- glibc-2.21.orig/include/features.h
+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
  transitioned to use the new macro. */
 #if (defined _BSD_SOURCE || defined _SVID_SOURCE) \
   && !defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror 
+   and we don't have time to check/fix everything before vivid release
# warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE"
+*/
# undef _DEFAULT_SOURCE
# define _DEFAULT_SOURCE	1
#endif

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Name: ply
Version: 3.7
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
License: BSD
Description:

PLY is yet another implementation of lex and yacc for Python. Some notable
features include the fact that its implemented entirely in Python and it
uses LALR(1) parsing which is efficient and well suited for larger grammars.

PLY provides most of the standard lex/yacc features including support for empty
productions, precedence rules, error recovery, and support for ambiguous grammars.

PLY is extremely easy to use and provides very extensive error checking.
It is compatible with both Python 2 and Python 3.

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PLY (Python Lex-Yacc)  Version 3.7

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:
- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```python
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```python
import lex
import yacc
```
The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
=============  
PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
=========  
More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
================  
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-). The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.
Special Note for PLY-3.0

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

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3—it is not necessary and may in fact break the implementation.

Example

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

Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# calc.py
#
# A simple calculator with variables.
#

tokens = ( 'NAME','NUMBER','PLUS','MINUS','TIMES','DIVIDE','EQUALS','LPAREN','RPAREN', )

t_PLUS    = r'\+'
t_MINUS   = r'-'
t_TIMES   = r'\*'
t_DIVIDE  = r'/'
t_EQUALS  = r'='
t_LPAREN  = r'('
t_RPAREN  = r')'
t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'd+'
    t.value = int(t.value)
    return t

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")
```

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 16447
def t_error(t):
    print("Illegal character \"%s\" \% t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lexer()

# Precedence rules for the arithmetic operators
precedence = (  
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    """expression : expression PLUS expression
    | expression MINUS expression
    | expression TIMES expression
    | expression DIVIDE expression"

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]
def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name \"%s\" \% p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at \"%s\" \% p.value")

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')   # use input() on Python 3
        except EOFError:
            break
    yacc.parse(s)

Bug Reports and Patches
=======================
My goal with PLY is to simply have a decent lex/yacc implementation
for Python. As a general rule, I don't spend huge amounts of time
working on it unless I receive very specific bug reports and/or
patches to fix problems. I also try to incorporate submitted feature
requests and enhancements into each new version. Please visit the PLY
github page at https://github.com/dabeaz/ply to submit issues and pull
requests. To contact me about bugs and/or new features, please send
email to dave@dabeaz.com.

-- Dave

Found in path(s):
* /opt/cola/permits/1144755348_1620110702.71/0/ply-3.7-orig-1-tar-gz/ply-3.7/README.md

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1.1486 pycrypto 2.6.1
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Last updated: 2009-02-28

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1.1489 eject 2.1.5+deb1+cvs20081104-13.1ubuntu0.16.04
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1.1490 pcre 8.39-9
1.1490.1 Available under license :
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--------

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THE BASIC LIBRARY FUNCTIONS
----------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.1491 httpcomponents-client 4.3.4

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1.1492 mbed-tls 1.2.8
1.1492.1 Available under license :
<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" ToolsVersion="4.0"
xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
<ItemGroup Label="ProjectConfigurations">
<ProjectConfiguration Include="Debug|Win32">
<Configuration>Debug</Configuration>
<Platform>Win32</Platform>
</ProjectConfiguration>
<ProjectConfiguration Include="Debug|x64">
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<Platform>x64</Platform>
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</ItemGroup>
<ItemGroup>
<ClCompile Include="..\..\programs\pkey\rsa_verify.c" />
</ItemGroup>
<ItemGroup>
<ProjectReference Include="PolarSSL.vcxproj">
<Project>{46cf2d25-6a36-4189-b59c-e4815388e554}</Project>
</ProjectReference>
</ItemGroup>
<PropertyGroup Label="Globals">
<ProjectGuid>{4485C157-39E7-4A97-93DC-80F794E37450}</ProjectGuid>
<Keyword>Win32Proj</Keyword>
<RootNamespace>dh_client</RootNamespace>

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<PropertyGroup Condition="$(Configuration)|$(Platform) == 'Debug|x64'">
  <LinkIncremental>true</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition="$(Configuration)|$(Platform) == 'Release|Win32'">
  <LinkIncremental>false</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition="$(Configuration)|$(Platform) == 'Release|x64'">
  <LinkIncremental>false</LinkIncremental>
</PropertyGroup>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform) == 'Debug|Win32'">
  <ClCompile>
    <PrecompiledHeader/>
  </ClCompile>

  <Link>
    <SubSystem>Console</SubSystem>
  </Link>
</ItemDefinitionGroup>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform) == 'Debug|x64'">
  <ClCompile>
    <PrecompiledHeader/>
  </ClCompile>

  <Link>
    <SubSystem>Console</SubSystem>
  </Link>
</ItemDefinitionGroup>

<PropertyGroup Condition="$(Configuration)|$(Platform) == 'Debug|Win32'">
  <LinkIncremental>true</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition="$(Configuration)|$(Platform) == 'Release|Win32'">
  <LinkIncremental>false</LinkIncremental>
</PropertyGroup>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform) == 'Debug|x64'">
  <ClCompile>
    <PrecompiledHeader/>
  </ClCompile>

  <Link>
    <SubSystem>Console</SubSystem>
  </Link>
</ItemDefinitionGroup>
FIND_PACKAGE(OpenSSL)

set(libs
   polarssl
)

if(USE_PKCS11_HELPER_LIBRARY)
   set(libs ${libs} pkcs11-helper)
endif(USE_PKCS11_HELPER_LIBRARY)

if(ENABLE_ZLIB_SUPPORT)
   set(libs ${libs} ${ZLIB_LIBRARIES})
endif(ENABLE_ZLIB_SUPPORT)

add_executable(selftest selftest.c)
target_link_libraries(selftest ${libs})

add_executable(benchmark benchmark.c)
target_link_libraries(benchmark ${libs})

add_executable(ssl_test ssl_test.c)
target_link_libraries(ssl_test ${libs})

add_executable(ssl_cert_test ssl_cert_test.c)
target_link_libraries(ssl_cert_test ${libs})

install(TARGETS selftest benchmark ssl_test ssl_cert_test
   DESTINATION "bin"
   PERMISSIONS OWNER_READ OWNER_WRITE OWNER_EXECUTE GROUP_READ
   GROUP_EXECUTE WORLD_READ WORLD_EXECUTE)

if(OPENSSL_FOUND)
   add_executable(o_p_test o_p_test.c)
target_link_libraries(o_p_test ${libs} ${OPENSSL_LIBRARIES})

   install(TARGETS o_p_test
      DESTINATION "bin"
      PERMISSIONS OWNER_READ OWNER_WRITE OWNER_EXECUTE GROUP_READ
      GROUP_EXECUTE WORLD_READ WORLD_EXECUTE)
endif(OPENSSL_FOUND)

Certificate:
   Data:
      Version: 3 (0x2)
      Serial Number: 13 (0xd)
      Signature Algorithm: sha1WithRSAEncryption
<SubSystem>Console</SubSystem>

<GenerateDebugInformation>true</GenerateDebugInformation>
<EnableCOMDATFolding>true</EnableCOMDATFolding>
<OptimizeReferences>true</OptimizeReferences>
<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
<AdditionalDependencies>%{AdditionalDependencies}%;</AdditionalDependencies>
</Link>
</ItemDefinitionGroup>
</ImportGroup>
</Project>

-----BEGIN RSA PRIVATE KEY-----
Proc-Type: 4,ENCRYPTED
DEK-Info: DES-CBC,F87FE1C0FB9B3E77

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JWhqZ+VuiRsxeKqj0+x+4bnKLArvbshh+UKCEVsCP1d2d1xfgjsnyr8tqJnJE0F6
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Xv6ta3kb1BBCiqKDHf2HUU7ZmwpVQuJ+HqcqNEhsPm0V4k0p0S3PZMbYVKpEtDO
vh9CPmQy/nfHq7ZAs9/2HN4/OT/5kw4JM9qQy7eo/6FX2yh39LYz8u7PXLaM
pwOiFb+zvegYts5aCXyM1nBUu9NFPDQNYtjXOhbWL0hEr1RZgK67f5QYIaxWgGCK
St4moIn7J5BFiVnlp7/RXCoCm3a3Zv5PiRw83ySclzgDdTnmp/70jp8pGxEn
Il7b6s8ZEcYEcKyPar210Nh9abySPkkFaujN4do5wjboC0VPx73M6eTZe6iOUgR
cX9WwkIR6G6VQfM6xAZd0kQ2cj6M4YRze1RKHLqho0+gre76FLn8Kzf/Hjrp/0iy
0flr/6BwLxGV49vMUcS9qOe/ffru9Y89cOwbqHxKJ24Oz+64OPye5xDMEIZ8
IXiNk3aBExuLdKBKJR8B9kyKuxNQwDqoHcsrc77Gjio+q24w+G2+KAzBEup4S9cYgp
FiSvK8szKINfE149HAl60MJJyEjTUuL7+iO1La3HGldWbqQp7KxiH6qolIUv
VU5sT6VSNlWLDyTyMbcjMx1odRsWrlwLqslvNlCeGGwe+P4sm4LivNfQ==

-----END RSA PRIVATE KEY-----

##================================================================
##============== Example OpenSSL configuration file ==============
##================================================================

[ ca ]
default_ca = my_ca

[ my_ca ]
certificate = test-ca.crt
private_key = test-ca.key
database = index
serial = serial

# References:
#
# /etc/ssl/opensslconf
# http://www.openssl.org/docs/apps/config.html
# http://www.openssl.org/docs/apps/x509v3_config.html

[ ca ]
default_ca = my_ca

[ my_ca ]
certificate = test-ca.crt
private_key = test-ca.key
database = index
serial = serial
new_certs_dir = newcerts
default_crl_days = 5
default_days = 3653
default_md = sha1
policy = my_policy
x509_extensions = v3_usr
copy_extensions = copy

[ my_policy ]
countryName = supplied
organizationName = match
commonName = supplied

[ req ]
distinguished_name = my_req_dn
x509_extensions = v3_ca
prompt = no

[ v3_ca ]
basicConstraints = CA:TRUE
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid:always,issuer:always

[ v3_usr ]
basicConstraints = CA:FALSE
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid,issuer

[ my_req_dn ]
C=NL
O=PolarSSL
Certificate:
Data:
  Version: 3 (0x2)
  Serial Number: 8 (0x8)
  Signature Algorithm: sha224WithRSAEncryption
  Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
  Validity
    Not Before: Feb 12 14:44:07 2011 GMT
    Not After : Feb 12 14:44:07 2021 GMT
  Subject: C=NL, O=PolarSSL, CN=PolarSSL Cert SHA224
  Subject Public Key Info:
    Public Key Algorithm: rsaEncryption
    RSA Public Key: (2048 bit)
      Modulus (2048 bit):
        00:b9:3c:4a:c5:c8:a3:8e:90:17:a4:9e:52:aa:71:
be:11:ad:5c:73:16:0c:64:11:48:04:ff:d6:e1:3b:
07:67:0b:03:2f:af:09:ed:0c:33:8f:0b:ce:10:ef:
5e:1c:81:60:46:3e:b5:33:3d:fa:6e:de:47:1c:be:
97:17:0b:13:0a:76:4a:8b:ec:1:47:30:fb:3a:f8:
ca:01:e3:35:7f:fa:20:f5:dc:fd:69:b2:6a:00:7d:
17:f7
Exponent: 65537 (0x10001)
X509v3 extensions:
X509v3 Basic Constraints:
CA:FALSE
X509v3 Subject Key Identifier:
X509v3 Authority Key Identifier:
Signature Algorithm: sha224WithRSAEncryption
61:9f:a5:62
-----BEGIN CERTIFICATE-----
MIIDQjCCAiagAwIBAgIBDCANBgkqhkiG9w0BAQ4FADA7MQswCQYDVQQGEwJOTDER
MA8GA1UEChMIUG9sYXJTuQyGTAXBgNVBAMTFTEFbGyU1NMIFRlc3QgQ0EwHhcN
MTExMTIyMjEwMjQzMDAxMTQxMjIyMjMxMjEwFw0xNjEuMBwGCSqGSIb3DQEJ:
-----BEGIN CERTIFICATE-----
IMN5eJyEzMTQxODA3WjJIMjBIMjEzMTQxODA3WjJIMjBIMjEzMTQxODA3WjJIMjB:
MIExMTIyMjEwMjQzMDAxMTQyMjIyMjMxMjEwFw0xNjEuMB0GA1UEAwwCcnVzdALES:
-----BEGIN CERTIFICATE-----
IGAnBgkqhkiG9w0BAQEFAAOCAYAMAICoGA1UdIwQxMDAxMTQxODA3WjJIMjBIMjEz:
-----BEGIN CERTIFICATE-----
M8e1bYz/qRZBr+eAlccxYMZBFIB/PW4TsF24m7s5cJIRuU3WiHOaB9ccvidtAa
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---END CERTIFICATE---

-----BEGIN CERTIFICATE-----
Version: 3 (0x2)
Serial Number: 5 (0x5)
Signature Algorithm: md4WithRSAEncryption
Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
Validity
Not Before: Feb 12 14:44:07 2011 GMT
Not After : Feb 12 14:44:07 2021 GMT
Subject: C=NL, O=PolarSSL, CN=PolarSSL Cert MD4
Subject Public Key Info:
    Public Key Algorithm: rsaEncryption
RSA Public Key: (2048 bit)
    Modulus (2048 bit):
    Exponent: 65537 (0x10001)
X509v3 extensions:
  X509v3 Basic Constraints:
CA: FALSE
X509v3 Subject Key Identifier:
b:9:39:
78:63:4:3:e:87

-----BEGIN CERTIFICATE-----
MIIDPzCCAiegAwIBAgIIBAgMBg0GA1UdEwEB
MA8GA1UEChMIUG9sYXJTU0wxGjAYBgNVBAMTEFBvbGFyU1NMIENlcnQuTUQ0MQswCQYDVQQGEwJOTDERMA8GA1UEChMIUG9sYXJTU0wx
MTExMiIeMTQ0NDA3WhcNMjEyMTE0MQswCQYDVQQGEwJOTDERMA8GA1UEChMIUG9sYXJTU0wx
MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAuTxKxcijppApAtXJ

-----END CERTIFICATE-----

<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" ToolsVersion="4.0"
xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
<ItemGroup Label="ProjectConfigurations">
  <ProjectConfiguration Include="Debug|Win32">
  </ProjectConfiguration>
</ItemGroup>
</Project>
<WholeProgramOptimization>true</WholeProgramOptimization>
<CharacterSet>Unicode</CharacterSet>
<PlatformToolset>Windows7.1SDK</PlatformToolset>

<PropertyGroup>
  <Import Project="$(VCTargetsPath)\Microsoft.Cpp.props" />

</PropertyGroup>

<ImportGroup Label="ExtensionSettings">
  <Import Project="$(VCTargetsPath)\Microsoft.Cpp.props" />
</ImportGroup>

<ImportGroup Label="PropertySheets" Condition="$(Configuration)|$(Platform) == Debug|Win32">
</ImportGroup>

<ImportGroup Condition="$(Configuration)|$(Platform) == Debug|x64">
</ImportGroup>

<ImportGroup Label="PropertySheets" Condition="$(Configuration)|$(Platform) == Release|Win32">
</ImportGroup>

<ImportGroup Condition="$(Configuration)|$(Platform) == Release|x64">
</ImportGroup>

<PropertyGroup Label="UserMacros" />

<PropertyGroup Condition="$(Configuration)|$(Platform) == Debug|Win32">
  <LinkIncremental>true</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition="$(Configuration)|$(Platform) == Debug|x64">
  <LinkIncremental>true</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition="$(Configuration)|$(Platform) == Release|Win32">
  <LinkIncremental>false</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition="$(Configuration)|$(Platform) == Release|x64">
  <LinkIncremental>false</LinkIncremental>
</PropertyGroup>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform) == Debug|Win32">
  <ClCompile>
    <PrecompiledHeader>
      <PrecompiledHeader>
        <WarningLevel>Level3</WarningLevel>
        <Optimization>Disabled</Optimization>
      </PrecompiledHeader>
      <PreprocessorDefinitions>WIN32;_DEBUG;_CONSOLE;%{PreprocessorDefinitions}</PreprocessorDefinitions>
    </ClCompile>
    <Link>
      <SubSystem>Console</SubSystem>
      <GenerateDebugInformation>true</GenerateDebugInformation>
    </Link>
  </ItemDefinitionGroup>
</ImportGroup>

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GCM NIST Validation (AES-192,128,0,0,112) #2
```
gcm_encrypt_and_tag:"021766bce3aa33551733d7afe8c4d77a79be8eeac19be0a05":""b0efa8e53688eaae9750dcf2
c104abe":""104:ab9f7923a3b9228cb9ecaf7907:0
```

GCM NIST Validation (AES-192,128,0,0,104) #0
```
gcm_encrypt_and_tag:"4343d6bce3aa33551733d7afe8c4d77a79be8eeac19be0a05":""b0efa8e53688eaae9750dcf2
```

GCM NIST Validation (AES-192,128,0,0,104) #1
```
gcm_encrypt_and_tag:"39994c2520a1696ce3f3e8c6e4833286ce373996e379563b":""dbf9c04266d95191d70739e932ed8572:"
```

GCM NIST Validation (AES-192,128,0,0,96) #0
```
gcm_encrypt_and_tag:"0e97d15f4992a6354e43944fd346da65ac1f0f1229189442:"
```

GCM NIST Validation (AES-192,128,0,0,96) #1
```
gcm_encrypt_and_tag:"27504fc47a9e9a5eaded3782c5b088359e1c0abb7f270:"
```

GCM NIST Validation (AES-192,128,0,0,96) #2
```
gcm_encrypt_and_tag:"d5fe67737e73676856e437595c5e3d27f7e337c346e:"
```

GCM NIST Validation (AES-192,128,0,0,64) #0
```
gcm_encrypt_and_tag:"f28292e1c5419511a67db0d2317433a99672a97361dc14:"
```

GCM NIST Validation (AES-192,128,0,0,64) #1
```
gcm_encrypt_and_tag:"2042f9244079736291ba7fe1f030cb99672a97361dc14:"
```

GCM NIST Validation (AES-192,128,0,0,64) #2
```
gcm_encrypt_and_tag:"d9b4eb00a0c3fabb5304ac38414ff7782cb0186436a4b9036:"
```

GCM NIST Validation (AES-192,128,0,0,32) #0
```
gcm_encrypt_and_tag:"b5128f4cf91d53b3a50e9b76b60b27da33c4d4b9349d89413:"
```

GCM NIST Validation (AES-192,128,0,0,32) #1
```
gcm_encrypt_and_tag:"3ac7ab2ade7a8e397d66be6dc7671f19ed39ad65490f1712:"
```
GCM NIST Validation (AES-192,128,0,0,32) #2
gcm_encrypt_and_tag:"9fe2de7e3e74b7e318413a32892d4fd070de98821588bc82":"63410c83fa363a63fa78303b9994b96c6":"32":"49c514ac":0

GCM NIST Validation (AES-128,128,0,1024,128) #0
gcm_encrypt_and_tag:"66ebdc2332276784a69b66b13176161210bac91f16d36ba4c":"647f41b60ca579086ba8854d0434395":"da266ebd0427b6e7a75b4b87d3b7272f569c905ffaf6bce59ac665a257cf6d68fd2c1e51aad5e6188e02a56f70aaa49ba489802247ca327de57a3e3ca87e72a8877d82b50341a2133b03cd0027216cfdc94fe3ce8a48e1c04145b597924b37179777db3f23b8edc913357037d0fe02afe2bba691e275543edfb7f7f1cc4"":"128":"420b320c2d616a0b11a7605a84f8e26":0

GCM NIST Validation (AES-128,128,0,0,32) #1
gcm_encrypt_and_tag:"2c604d482758f2b04318efefeba2c22989c3e61146f39a35":"99f3449c8538414e7ab595b92a7e6e10"edfc2a8ed91cfce0117fc9e2d1b1b843c7cf365a2b6c6b4d598686d7eae9c7453623967a30ffbd5b30fc0205209b83464fc70784478f5f39a79d4971ef71c3dd0200a89aef6a6edca0a1f3a4bf2929b79e141be0dd3671772e7e793e08f5f2ecb7a266b9a02a2c700b63d8c43da0b569510285e89b530adcbdf77397d":"128":"091cfe38b248460eaf8181b58634a39":0

GCM NIST Validation (AES-128,128,0,0,32) #2
gcm_encrypt_and_tag:"82c8197e6641d0832639e2b1d7691fbac79618f2f5db45f":"69e1a3e3e5ed4b3ed941646e3ad259a6":d0fcb4f4d7564c0f0b52e1a808e6b1a7386fa13c1761941ce9a28e6a1d5e74f47c3da65ae9475d709c8451f8d4fd2bdc4629e507a347391892e0f24495b026681c387b36e6e8ca5e5e25cfe3c6f7e96c22469478ee674440c0a226f6ec824895f3109551f85c6602933d1780b845b93376a9e4fe5f2a8e8bac2c6":"8c7e4343ae8cf1cdda4969c1a94ab5cc":0

GCM NIST Validation (AES-128,128,0,1024,128) #0
gcm_encrypt_and_tag:"1a349ba9690b2c8f49b7e5314911ba8de358f2e74ceddf126":"f5998a62ec507c5f5b8209dc57ac62":78445eceeeceee3e626cefe52859f1d2ae854bed3ace6c63ae93d0ca95d85692002a4ba9e1e8bf6df2e13f0a844977bc3c2b0645281d5e38ad1bcb3d4a84346a99f34889db46c751956e21aaf97b84af55df7d0d6e6a07e856d9b791e0a45e9e37881092f6040a9e9d877571423d3e9c7cf6f25d0b65b5d7377865ec4da":"120":"4d7eab0a3719fa53e5529e5a85bbd":0

GCM NIST Validation (AES-128,128,0,1024,120) #1
gcm_encrypt_and_tag:"019af03d23342f7916c329b68a316e566a859402c0bf7":"c5fd96765f6cfd651e23ac6d206744a0f":9808af3403051a52b6652df03b66b3790a471b2d242c436ca6ba6f99139eae16847656093798731b99697092871992335e775315e4215453b417127a6d16ae63773c8c0d7363b3a8b8f38ccf2e22e561c456682f2ec27161da3b89526ddd9e222351b9d0e4cde4e8680f26d70fe57d577ea287b199be1bbb876328ddd3c3":"120":"fd36afafe5f571fa9b6ec59b77381":0

GCM NIST Validation (AES-128,128,0,1024,120) #2
gcm_encrypt_and_tag:"fabc39d2946b2a343d76b1ccc1993c7eae3cd7b6ea187bc":"247bc7146489dd3495c4dee8a071c76":cb2c6f6a5a540d79741af5cd6bed79061a0245b6c909d0a2e2d7837b875cf06936cc8a5daba0c0c76ebdb81217525a6bfe04a4a2b78f3357025930b0f9488369b2aa88a2107bf6c4ba741f4c26d0380d647ada5852d2c5393004779295412b202c3cb977a7b94c24cdd2a891a2035f388257b84e5b31bdc895f062":"120":65e1aad214f49881a067d8b372ab6d":0
GCM NIST Validation (AES-192,128,0,1024,112) #0
gcm_encrypt_and_tag:"57b5269772ae2df6354410a69dc3c5f28b31e6617bd78e":1":"0d96720526491fd196eaa64657e3c9e71":"chd6b3c7ed242f79afaba76dd8ca4d8efe11b0f521fd7170f07461c785252874b2f8fd05a3943cdec824f4ecef03969800bbedda053c06c99086f14c8069d035347d4e55e6a55ecc3a9fd7f4e85edbd19ed88b452e6eb76381d9d069565ed3cb139a3df378f4c6b6ccfa35f85a5fbcde5150fd19df52f51f9dcd007":1":"f0c499606f6b63edbb50fbe9d8":0

GCM NIST Validation (AES-192,128,0,1024,112) #1
gcm_encrypt_and_tag:"7bf69ed02671107e11fd016ed4aaab0e2d2ac05bdc46f":1":"f0c499606f6b63edbb50fbe9d8":0

GCM NIST Validation (AES-192,128,0,1024,112) #2
gcm_encrypt_and_tag:"ca781bbed417a15c6d4767f47f1d4310a3b81b275013d6":1":"386930cede9a460978d0f1665c62":0

GCM NIST Validation (AES-192,128,0,1024,104) #0
gcm_encrypt_and_tag:"1b268de4f6644ca4fa36168014656d5d4decbeff9cdecde605c":1":"4009b00afa02d6caad117d6c04f74ed8":1":"3e3ba5555e90684bdf597b5e37f60b51759a8108889d88b8b5493efa1fbcfa64f95":1":"66cbb7d28d3fa70bce2900a84":0

GCM NIST Validation (AES-192,128,0,1024,104) #2
gcm_encrypt_and_tag:"f451c5ed9f849a390406fdefe4437cb80933d13f689aba0":1":"9e2dd52e04651c9ea88caf4adfb2e8ee":1":"87b804dad48120d367a92bf4deab959e2c056decdebdb29f216df9172817bcbf3d2256bdc1e8aac3fe3eb22b71f1f0d22e1ed9f178531750ba4865672345b501b1a1e4f6acc7e0db0375862504672aff50ab3e6a1d9b9f37f9a7b791031ba647e3e43cb097a323ed8dddf5f2e4b90406b500a435bfa91935065f26":1":"e192a49f5f22fa39dcaf54ac":0

GCM NIST Validation (AES-192,128,0,1024,104,96) #0
gcm_encrypt_and_tag:"7b4b08c8eb9966ab256fb08e078dedd7ba084b8967c322738c9e89e1cdefbbfa004953f582e9a2974dfcf463a7e7744a576dec37e0cb36fced2b2c2fe4328b5032f5741e696ce25c494922336e0a5e2af3edc1a2263526236ca5a5555e90684bdf597b5e37f60b51759a8108889d88b8b5493efa1fbcfa64f95":1":"66cbb7d28d3fa70bce2900a84":0

GCM NIST Validation (AES-192,128,0,1024,96) #0
gcm_encrypt_and_tag:"bd0f2fd8eb540aba72a3f341597bdf3f23e61665f696a19b4":1":"7198af3f59a40f0597f45f5b92ed6f50":1":"e0f0def48b3d34632fdd42b4c6e3e537d0d3fa1e8ad7f2d2016a1c2b5736e96e3e8ed9015807f7ed759482ca701d28c08cb955be2448bf87d737394d1ca4d2e7eace09d6c1807bb14f31619df71554c9f87ad6748a49e136108cedf877799765649893e993aad4a51b6861608387686323085af515b48sa4ea47020cf2980":1":"43298281cd27a36e5cbae4b9":0
GCM NIST Validation (AES-192,128,0,1024,64) #0
gcm_encrypt_and_tag:"ba33cc24c41bf98366076bd05e66a3d16298ce8977dd170aе":"4b30423df6de76dd6d84274afbea098d9":"71f56e67bb774f6a41e3d7e0f96a46e88e8a9c9d726e136f5ed5949c79f89e9c993a6dd674e7222a0a f17331ba943b659be101726a80e5529e2873e4eb05fcb4d78db9952e58eeb64dfeb0d1ba2f0e7e48902215277a49ee953108526a70e150eda856a0e49955fc6323766aa10e1e3cf8be4185f4bb4a34786":"64":"73e800182357ed70":0

GCM NIST Validation (AES-192,128,0,1024,64) #1
gcm_encrypt_and_tag:"1715153980e3c5c14e98611dbdbf42646682ce66d8f3a70":"3396b968b3a611ed22e12e8a5e9c911":"95063f3c9061aadcece3c85a782a5739f88b49d1f3b787507c4de7e0617283e7b2156e32e42ad1cfeaca1a2 e2ba184d4101306f21e9d03e0f8da4854773e26a88a5173d52960286c1875df317616b1704de28845e60f58775304f4 9cf4e782ac70cb00b3d9e345fc838e880430460bcaea83112543cd1622e4aebd221":"64":"5d51a0868a2161a5":0

GCM NIST Validation (AES-192,128,0,1024,64) #2
gcm_encrypt_and_tag:"5d69dbec7e8be08f2b5bbf61fdff1f4413f5f6246101fb795":"a2eb3eba50dd93fa375cf682db7b2cb7b":"a0f9e0de86b54d3c17ece3c3504563237e170be3c5e2ab1c7739ad27d6c5ad6f61ce7a3d10d0ba8730d12c30 6eca8952403983bf242fc16beffa153ca446a07d16a70af4e8ad4c4e0c93d466d3ca5630f5a610a9e6eeb8739a06d3 234642he86b03c596235ec03019e762458abe17d3740a18ca5b7e0e088391d3a":"64":"1a827855ee98d679":0

GCM NIST Validation (AES-192,128,0,1024,32) #0
gcm_encrypt_and_tag:"7aa372879f290aa442217212156920c69457b8ec41eb1ab5":"cb593221c59846dc82fc0dc d04a3fa0":"15d7eb94985c34b72b6675d7346f0b5dbf8fd5278555399299028e4179e69352d398a5d0e5b370b d9dcb2d45d76b89790ce9b86142f715fb1ba222422af67599c5af8e043d1a91d7ea95b56dbd086db8e3a061b1bc68e2d e9ac728174fd3669d65db62a06380a57273d39091b7a1b6998041d5501e9fba8f91a7d278c":"32":"55b86d22":0

GCM NIST Validation (AES-192,128,0,1024,32) #1
gcm_encrypt_and_tag:"961a3e78f6a7594445559d9d0345e08f4669972f3d5c02c":"ce43a19ac648e62dc49d243f b34e29":"393763558133078a0367b2484be1c835292a9212e09318a5b63ad3e42cdca7c181c565629ac4afc73b2d e85be9cfc8310fe70a3873e7d3b2d41e6aeb99621f027077232ca39c5e528a41b323264175546dfdb250ce693e22dc78a9 0479bd89d7ab4b63e504866ded2ec6b5153cfd5f12a91c94f2a6e09878747ae5398187":"32":"ac701373":0

GCM NIST Validation (AES-192,128,0,1024,32) #2
gcm_encrypt_and_tag:"c4d492904be0de4e46e2557ac833265c715bb57f18cd040d":"df41b22b92d43a96a7504514
GCM NIST Validation (AES-192,128,1024,1024,112) #0
gcm_encrypt_and_tag="d99b9e9d935589e33e9c2b956780cd9618e0df79d1083e69":"d8a75e22df3e2d501276c6fdea b09fa1b117875998319e1ea38c9745a1d5833ec6ba9df081772349df4a12e1e3e1927bd4cd54a2c186c9efbfdb4 de99ff5d90850875a3d9ce83d69791a9802adca48f73d0517322525c8463e3d59a98959b63b6f07f2d7d5875e87c bbb4757bd1919ba22d6baa042d781e7a97d":"abd4b94362501bf83f0t7a0f376ccfe600":"ad9aa9ae4c1858ec082d1e bfb62604a403fc848fe08daa15a89f78554916a8ae681ac6600c0266a2de321918fe58048c9eca99effc350f117e 27727048398f8a1a53ca00693ecad82b26c7657705404bd89af7451d66b7d7fa47065e9d3fe2a9109e27b911591e4f4 e4746b353595affada4356676b3c73313610ab":"52e88b54b410dbfd88092df5268859290260975284002aca54283 7d795d0e33559495fbed22b070e4a7e630469b92fe2dde200d4409a4ce71814378096673675c73b1387d04005 ef1206df30a21f46c0a718665e8090f0f0cb4b25501234064b20225ec460defaf554a8bfb59e4f4244e0e2956e3c744a4 0a9":"1024f8e99775f4a648939047d3143":"0"

GCM NIST Validation (AES-192,128,1024,1024,112) #1
gcm_encrypt_and_tag="9690be8fe820061e9c7d38cede03f63a00d60ce9f4e7a496":"e0f574ddbb048315b5a86f0182f 5f100d866fe13c17065b471df1576723041cb8c69c0218eceab93d36946be8ee853c657add2ce3aeb1670b03a519175e8 e768b37778ec43833cd716e1ce8fe5cbf1d663149201e2d677a3973fe1297d65188201cd0c33535fe94d0ab066497b7 60cf997e48edebeb264204006ca363aa1e":"672f43787862c2738055273e72555b39":"e3a4dcb3edc591ce86349e ed2da0a3d31cfe082f0badda3e1c9d95799fe1d5b94daae5be999f630e5121eb2957ce9d4d98ba205ac122b a87b5ca0ebe6a6b2af2c6326d953d16d0896334ce03257203072fe066b86c6f37962748a13e681088090df32d0f6a30 72fa89bbbe3a5588e97a43d6656093c7d37":"2a3e4b79bcb3af04b8a413d1f8ec759e006e00cc359f0c5bf6679f78347dfec84b8229288583eb59e5e5d87913a6caeebac3f3711ff87bf79429e551c649596e59931d244a5a4 8e25bf2f485ecce9e70990b04e2621ce2c8fccc3aa66b0730c6639de1bfa0124afe351912279b3ca363f4e6013496fc1":"11":"dbdd6af194f2578a0d8382d0ca1":"0"
GCM NIST Validation (AES-192,128,1024,1024,32) #2

gcm_encrypt_and_tag:"02bc0a8ab5468123009f0d1e4e6a85d5461d75f783b2d2f4fa":"b7b350dbd6fc0796ef90dcb23f9561b7fe27b2aa26bb8e3e76dbb737ca1e15cd64a232f507904e5715c21722d4df0ba38ca4d1de2570e084cbaddb0e880b35140c487775c3c30a19b2b028e5fe1df75f9835777d6c023359a5a1fafe09349b1ebe2f512513582b936e32c871c99f15525f4a26f6c30a43501301d73c16df":"916d72d515d3274ba48828d4113dbab":"1002513035bcb17ed8eb2710ff8cf93cc55e2ec2b356600d4c1182b52867363ac2d6d2fc98827115666a97746380527e4b3c9e9e09e1ec9495dfe996e7c73bfbfdae3d85ef13377bce960fd1d60d0692a16699e89d20be151f6323cb38e6f8a5e838f02af379567f518f15d81b912cb2a542356087c1b9c02be83909f44":"d590f2ac6d4c574ecce12c675f509edf601e1404cbabf923ed4b44390eef66d839ed6f06d7b0649f76911df3ce36a3a1521726d264ea806eb2efede01788634349186688ceda8531f3b5e0e4e374ccfe375e7c59f753e4f1f439811b3d7d6bbaa1e81f9dbf8b9d7938384a6e4505f7e4270321c73292ba7ff15056":"32":"22e50ed0":0

GCM NIST Validation (AES-128,192,256,384,512) #0

gcm_encrypt_and_tag:"d3180703e1ec93b20d1acde4e6a85d5461d75f783b2d2f4fa":"b7b350dbd6fc0796ef90dcb23f9561b7fe27b2aa26bb8e3e76dbb737ca1e15cd64a232f507904e5715c21722d4df0ba38ca4d1de2570e084cbaddb0e880b35140c487775c3c30a19b2b028e5fe1df75f9835777d6c023359a5a1fafe09349b1ebe2f512513582b936e32c871c99f15525f4a26f6c30a43501301d73c16df":"916d72d515d3274ba48828d4113dbab":"1002513035bcb17ed8eb2710ff8cf93cc55e2ec2b356600d4c1182b52867363ac2d6d2fc98827115666a97746380527e4b3c9e9e09e1ec9495dfe996e7c73bfbfdae3d85ef13377bce960fd1d60d0692a16699e89d20be151f6323cb38e6f8a5e838f02af379567f518f15d81b912cb2a542356087c1b9c02be83909f44":"d590f2ac6d4c574ecce12c675f509edf601e1404cbabf923ed4b44390eef66d839ed6f06d7b0649f76911df3ce36a3a1521726d264ea806eb2efede01788634349186688ceda8531f3b5e0e4e374ccfe375e7c59f753e4f1f439811b3d7d6bbaa1e81f9dbf8b9d7938384a6e4505f7e4270321c73292ba7ff15056":"32":"22e50ed0":0

GCM NIST Validation (AES-128,192,256,384,512) #1

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<th>AES-128, 0.0, 0.128</th>
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<td>&quot;944ed7743be9ce370caba7b7c9b7dece2&quot;:</td>
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<td>&quot;1d378642e0ceb383de3898ef2cffe&quot;:</td>
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<td>GCM NIST Validation (AES)</td>
<td>AES-128, 0.0, 0.128</td>
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<tr>
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<td>&quot;794fe4df0084ec21f3ea9f595e5b0382&quot;:</td>
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GCM NIST Validation (AES-192,128,0,0,104) #1
gcm_encrypt_and_tag:"30eeaca6ac70d9de4f4f7441d6b9b5608cca39d07c0ded5":"":"361e5cd21c670de39b5f0b2b89437f99":"":"104:48a9621522a98bc6c0acf03429":0

GCM NIST Validation (AES-192,128,0,0,104) #2
gcm_encrypt_and_tag:"4fb80c4d026c3f68ab8fcb8e28e144f6b3b3ba00d70295efb":"":"ee552fb94a527d18d285d6c195ca7b2f":"":"104:5ec97630ce593e9d560136774c":0

GCM NIST Validation (AES-192,128,0,0,96) #0
gcm_encrypt_and_tag:"c0261023ee9f682789ce9ae970f7601f07551259ef9194":"":"bffe4af76db75bc4a3d42b57c73c51b6":"":"96:bf827b4526da77ab2e21908c":0

GCM NIST Validation (AES-192,128,0,0,96) #1
gcm_encrypt_and_tag:"4fb4ab2b71bff4ec239ac05c04800806df2c256a4845b13a":"":"3ee0e2e72e3aa437e46a873bd659b1c4a":"":"96:572d3ec2650ad57ee84fe00":0

GCM NIST Validation (AES-192,128,0,0,96) #2
gcm_encrypt_and_tag:"193d5ebeb466d3f6e8754bba413ec65112ae29c5ca5e450e4":"":"04e9d31b3b1205ca37e435d5a5579df":"":"71004356f26668374437ae":0

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GCM NIST Validation (AES-192,128,0,0,64) #1
gcm_encrypt_and_tag:"6dfbff8797dbf21884b7d71e3ef3e5983234a837dbd02cd6":"":"6be4417d7c00fe9c731e0932a7037a71":"":"68b6c28786a017e":0

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GCM NIST Validation (AES-192,128,0,0,32) #0
gcm_encrypt_and_tag:"9295c6c458d907da5e7c356a7de51eb8e8d3031f72a05fb7":"":"c7ea3d389fc24aef96a711ffbffb9e":"":"32:12508e37":0

GCM NIST Validation (AES-192,128,0,0,32) #1
gcm_encrypt_and_tag:"308b6ee958f81a7fbb3bc386e167459206df9c1cb999d904":"":"2c61b991ce478d9aac818d7a75ada36":"":"32:32ead170":0

GCM NIST Validation (AES-192,128,0,0,32) #2
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GCM NIST Validation (AES-192,128,0,1024,64) #1
gcm_encrypt_and_tag:"e91e8c8ed69288bfba870e141e3ee3d43a56d00dacc8ce7e5051":":";"6f3d661a3e321844d1fc12d5ec22ec6f":"fece5b54ad1647f9dbbb437abe0fa8ace66065de0250a2ae75525455ee13adce8c859d643b96e9002d780db64f1eb9d82369a2438171db268fd50153d1e3c8399b9349508436b384f5ed76571acee009800454596674217b1983275152f051f3995776a89209c1636bf4f28a364bcdded78a3d6876745c1a438406":":";"64881eaf78aeaa7d":0

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gcm_encrypt_and_tag:"1187a34cbe75cf06dafeeca0235186ce46ba929adace6cfe649":":";"9dd515d348812efbe431998f23b34f7":"81b00e5d1445e1e71bd342f9bb309790a8ae026b3e397eb3491fd8655e88109be779ff701c72f363965e60898df157eb933817490fe2ecb4e4324f5f34473215d5e46818338ff688637217dfaa87ee552db01973fd60843c20b530863ecb1cc79804689994f5625df2a56042d62742097ccd15d2a53a":":";"83f45529":0

GCM NIST Validation (AES-192,128,0,1024,64) #2
gcm_encrypt_and_tag:"c41052610d05bf75753b6b571eb64b487ed902f9969a420":":";"90f4ce93301371158271a8f46df1c8e6c9":"83d009a12381f8aa04036cbdd0f08af53f9d6403a03f7d0793595cd6d3d3719bf79c90865488299219d6bc627db34007b6732cb344a0febabd26b1209ce6b134a3d2138f9a38af034b265526079b63794d7fee306e97c6a0a991b3764ecd936e78000af6e689e302f12c2851bfefc950dad7a553c8ec67e01a2270e1e5e9caf30a":":";"32:30b3fd85":0

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gcm_encrypt_and_tag:"b171d789af63213bbbe171a42f1596e9da2496a1efdf1a636fa5a":"f5bf20dcde6all1ce51542ff345d4cc771d1bee4e747970c4cdd3c3cbaf408a5c7bd7606ac500d7ed5805f550efc67464ba501fb6c63a1070402626c57880f76ae066eef99af94d50f00c3db26ca2f617290743264f5a9e392192845d84915343defee02dbfce3fc26dc6453d6544d481e58591405db876f0d25f48e":"173279896fbc7906f5cb8e3756d8ef47":"fed61a49e516f02bea4843403f20f9296261e864a7ef08828181a51742bfe2030f71701ea17d77879306369b195919a7b5db44achab6e2ece3c3692cb8b9e4d7bce595bd4b061d302091bd1d4f154455b7ed98141e1d363ab3d3f187834bb6950b3e7cd848959a3e27f83949a9a9b65f7ba77181c9040b74c12fc0e84a94ab":"9db8a8f9d1920950790bae29bc7e9dc4":0
GCM NIST Validation (AES-128,120,204,120,204) #2
gcm_encrypt_and_tag:"83182ba753ac16554a873281599113b7620db0a420740be8c":"691d54d6189fb0f9ab9bb83d2124ce06398d638e9c9e1c53f07a3f30e9a9e2b86f84d1dde52f1f09f3e8e2767160385384cdd18ab99b27ac28d2c3490024277ca77e42110270baacb9f6baf6dd7688a665e508f654b0b180f3232215133cda3a53e7b83482f0c8f07ee5f91d64af61b3ef22801f121fca9e5d6843ccdc16":"805e6b736d6f269a4ce424a43745a615":"76dec6cfa3505d56b97e4488513cc3fd90f8067e1ca13b993bbf04afbad5f5c754587b5babcb873c9a82c8033763c1060e6a5ad9985eac5d85868785f410b077c51147754044bb97b3206df19f3c43b63678a0d55b5d5e94998c7693e818d92af9b9d23454f4eb1f22f33f8e85f39a865ad7dec823a1b1155538cf67df84":"74c69e72aa841253dd5d5db77393a":0
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gcm_encrypt_and_tag:"8bab5bf1cd8f259129e358cc56ace2b2bbbea79727f66":"57385955b9909a8056bf54ad25d
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gcm_encrypt_and_tag:"d0e00ed07c907dbd4b4e60510f73d8ab2a30703049206ce22":"e6835a650047033a49407f72029
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gcm_encrypt_and_tag:"2f1594e840375405a682dcb1836344b8e6cb3f1997eed7d6":"9bce6b71565347a38377000b3
efb33b16b01d6605195e09c116ed5ed202d2dd63c3d7ed9353e4c48348e959dbd616454440ceca50a33
ebbce470d898663625e069079f9d92f16763f7ae568218fc62ff5a7e50b5b97dab4cf7c97959677bf50574de5bc1e77
4ab50f97804a97c3a465d3f58047e40812":"7f1f4a80210bccc23487775c3ed7c42e":"773d6901a66d48040d9a
0a573510c74773ad27e3c3db38ededced4972ae26a758e1417ae1fcb08294a7312fa62f67e8b3e19d2e97297197
7e85783e2e491fa2e847d830facac81e95f3e0077b33389a5ed2ca22f9348a0771054322be717343b9a6686dafa0d2d
54e9b55c932d2a17129bhb532b2388028530":"112":"fc3e0ca7e80b7968b51b7ca16":0
GCM NIST Validation (AES-192, 128, 1024, 0, 104) #1
gcm_encrypt_and_tag:"88a6d441e1b7472aee9c294f56f3c3da1702d174e4f3":"eece12b0d0c636a7ff897c24459
32394d2bca9d11f730609cb97595c41d6ec9507551f687f6c0f6a1f6870177725717c2d2ed07619f513ca10308d770
65ce8e9e329289d3f64adba89a8a100c42e75d62e47f5b153a21b286fe89b1817b0c0f4d546e93220024874602a3a7
37542c0b35645a6a8b9f6a28c569a5da66bb51b":"058a37ae0502af7d1d0ce618f169f6a":"058f889deff307018092d1911f
49481db348a9623ab6d57a9ae34fd3d8e497751ede55ef67832296b148da5d267e6434c5e543fe21e062da74
f9a614cf29ed43ac42f76048716a9fd208aefa6a9fa40deee8ec9fa76a706cb4ed6b8abc566c6df97688aaad1a889ac
505792b5ede95c57422dfe7c85e5e471b":"04":"7fa5148885254a8838530df":0
GCM NIST Validation (AES-192, 128, 1024, 0, 104) #1
gcm_encrypt_and_tag:"abb4e4f8d3e4f07d5a75a9ca06ccf7852030daa84d09e13a":"24d82903e5074beb9a7692f4a9
b187c753c160a3e3a40653355ceb1c4170a0a4e66db7c87a81a3cc06653c45455bf8a8135d2a513b244a32c219ac6
e2a2695fb9e8c65f3c454dc0e2772f4a4ce5f1f62f3ad3046b3b1b0664f6f35de0c46530c96b54e8af081042309af8bcf1f3
73625fa27c00c9e628e4ae402cbf5b781a":"c9e489a51152ee2f8f16997f330c98":"3e5528ab16aed5be8d016fe07f
| GCM NIST Validation (AES-128,128) #1 | gcm_encrypt_and_tag: | "6773e6276fca94a16873a75d2ee6754ebfc2628dfceba28": | "eb0a64ad510968c68a816550d9f 2e2ccacb3d4f849b5a685a863f81b4b0d9a9631b8f46f67f9ee90769606b8e6fe672ee4a87f3ba269d8ab4c9581a 54638421520a6411a339e9c83b6981a9cd9de4a367d5f715f6d131cf385c01a736b327218e666468d317f78a1011f88 c59f3a9b1188b5e33f4af675843a976d": | "ad85becb03a05caa4533b8840faa141a": | "959658dfddfd02caac5a7 9d5f536bbae1f359ac47b7ff81264c7827bd31bf802ebcf54309b4b42a5a5a5c758ace4b94d6f303b3258807e334b43 abaa2fe469907055e548cafa2fe46979debe2913771c67096a8eaf659ad37702aed774188cb4426c3b727878755d6 83ed8c163a98a0f5069a032c282085600759170": | "404cf621b40b5667": |

| GCM NIST Validation (AES-128,128,32) #0 | gcm_encrypt_and_tag: | "1c086f7404c14160f33d6efde231eda6109f2a55ac147b": | "fc8e5ed81755e489d7e3ddd2b5 87149e1031bf2aca19c8514641b0e1659261ed60bd8df873e30e3998697487bfe56b8a543ceb95fd0e7eb2b4dc175c 52f28a8a20b4816f2056648e90fa65436c6454f5d0b4a1e7ca199d667289802e0b11246c28f9e9a0a1e1cf0df7765 819a2f370f920c3e9be5e26639499aa301": | "71f154f1dc19b84e5b8f3d160b4b32a": | "6d60da2fd060d2aec35faf989d8d33f2413ba14842b0406e38a6a84e7191eca9f4570ce6497399aafaf550e5a20f99132df2a8779cf0543e204962da1 f4d6f05237149e0d3ee7c165907e114ac5df88f3a71cd2d524ceca8316ee922ba3a07b28793941ddfc2f709c3 91afee9289252d3d6b2a4532aa551e35": | "f47babe6488f830fe": |

| GCM NIST Validation (AES-128,128,32) #1 | gcm_encrypt_and_tag: | "bae1b3eef91ba7903217e60bf8b47d46f18175565d0ed10e": | "9b71eecedc91cb5f7a567a91897 7f4f4c30d96477b88ac535d6d678a56e5e90986a17d80c811116d31985acbf9d7a9bed291aa2fb63294578a38363f81 1c1e64160fa3b86d9e9717c8a0506c9eb5e27d8e2e06d63f3e1ef0af4f809e1f6f6ed6d43d149b7399fa0dd9464321 bd4d256a49d0793a106f7e0438d68408428": | "cee8b6a65e47b04f58d43ace52e607070": | "015a318acac6918989c0e9aba1 1a287587a374a8beeed772c6d4edceb03a3bc892d0f565323456a250c705ce8028d4ad97947f0477834ae2de85d5f 53d0d3a9797450b6e7a66dd9b111f8799ea072699873727e91721968f6ed9411fd37d31fe63ee4e4326ff50a24cf75 004a5b2ad4845b29e079469493df15dede": | "9cf6f90a": |

| GCM NIST Validation (AES-128,256) #1 | gcm_encrypt_and_tag: | "7c158224ad0311f3902e6334546dd61c12308add0870": | "d4b716db49858a23aada478581c bbddf0dc15ae550f7497229b51776e83f2ded5425676c36a007fa0b499e72f71ca1259f13868c9b4213c352a 797a5d78a13737009166b993de14e1a0af67524acff97d1dalae32d5ef9a3f2dab5b3ba4dff2e5cf525768b41157fe7 9d59229d06119448308ec76425a966b21e": | "bbf4f3959914df413b849d5599dd43055": | "79964f87757c09099ca1b 2180c3056695e5382eb3e43759895e7ad8e487d0d562f3c1ce8ce82163608a8150e55dbd2b3f51670fd79d0 97617963dc6e7653126fe40c3b36a7f1751df77e4f3b768a85ee707c45d33cc674739f431da3e8b4e2c1859002331bf73 50e3e8f9806209255ceac7089176e9d66b70ab48d": | "795a9e0b": |

| GCM NIST Validation (AES-128,256,32) #2 | gcm_encrypt_and_tag: | "fd5a5a356943824d20630b1539627da1d99cd8ee2cb4dbf49": | "b8d86d0d631f9183ca858033a 31dd5f5383ce3e9b510fccc69d8cd42106168f594bedcc5e283136d72f6c61a996f64e6ab02ce9c5a8edc179ae93aad a2e8a5b848a150390e9b34e2526a9a9508543fdda983fcec02e0473edc3958da5222b53f8c48b9e5c478dd8b2712b59 2094635957552e28f2a45f1e8820354": | "aa89a122e68e997d3026984fa5ef805": | "107a9ed516ef45c3753d1ed4321cb74a47b641024d2d9e66fa103a750b8a16eeacabcc421510b1f99d2e966b3e6c90596b0dada521582f422841 30a40e5a6c1b58f3b28003673511abcfc9a4b9df1548a007f6d86819786b32f75e5da2cf1b499a24fbbdd4ffef0534da1b02b204856d3aee27948e35098aa617def5bd": | "79e886a": |

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**Open Source Used In HyperFlex HX Data Platform 5.0(1a)** 16518
AES-128-CFB128 Encrypt NIST KAT #1
depends_on: POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "f0000000000000000000000000000000": "00000000000000000000000000000000": "00000000000000000000000000000000": "970014d634e2b7650777e8e84d03cd8"

AES-128-CFB128 Encrypt NIST KAT #2
depends_on: POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "f8000000000000000000000000000000": "00000000000000000000000000000000": "00000000000000000000000000000000": "f17e79aedd0db7e279e955b5f493875a7"

AES-128-CFB128 Encrypt NIST KAT #3
depends_on: POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "fc000000000000000000000000000000": "00000000000000000000000000000000": "00000000000000000000000000000000": "9ed5a75136a940d0963da379db4af26a"

AES-128-CFB128 Encrypt NIST KAT #4
depends_on: POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "64cf9c7abc50b888af65f49d521944b2": "00000000000000000000000000000000": "00000000000000000000000000000000": "f7efc89d5dba578104016ce5ad659c05"

AES-128-CFB128 Encrypt NIST KAT #5
depends_on: POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "47d6742eeefc0465dc96355e851b64d9": "00000000000000000000000000000000": "00000000000000000000000000000000": "0306194f666d183624a230a8b264ae7"

AES-128-CFB128 Encrypt NIST KAT #6
depends_on: POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "3eb39790678c56bee34b4beecf6c6db5": "00000000000000000000000000000000": "00000000000000000000000000000000": "858075d536d79ccee571f7d7204bf167"

AES-128-CFB128 Encrypt NIST KAT #7
depends_on: POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "e0000000000000000000000000000000": "6a118a874519e64e9963798a053f1d35": "00000000000000000000000000000000": "dc43be40be0e53712f6e2bfca707209"

AES-128-CFB128 Encrypt NIST KAT #8
depends_on: POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "92beedab1895a94faa69b632e5ce47ce"
AES-128-CFB128 Encrypt NIST KAT #9
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "00000000000000000000000000000000": "b26ae1874e47ca8358ff22378f09144": "00000000000000000000000000000000": "459264f4798f6a78babc89c15ed3d601"

AES-128-CFB128 Encrypt NIST KAT #10
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "00000000000000000000000000000000": "fffffffffffffffffffffffffffffff0": "00000000000000000000000000000000": "f9b0fda04ca89f5b9e6f661c4ce4d07"

AES-128-CFB128 Encrypt NIST KAT #11
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "00000000000000000000000000000000": "fffffffffffffffffffffffffffffff8": "00000000000000000000000000000000": "8ade895913685c67c5269f8aee42983e"

AES-128-CFB128 Encrypt NIST KAT #12
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "00000000000000000000000000000000": "fffffffffffffffffffffffff8": "00000000000000000000000000000000": "39bde67d5c8ed8a8b1c37eb8fa9f5ac0"

AES-128-CFB128 Decrypt NIST KAT #1
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "fffffffe00000000000000000000000000": "00000000000000000000000000000000": "1114bc2028009923f0b1915ce5e7c4": "00000000000000000000000000000000"

AES-128-CFB128 Decrypt NIST KAT #2
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "fffffffe00000000000000000000000000": "00000000000000000000000000000000": "9c28524a16a1e1c1452971caa8d13476": "00000000000000000000000000000000"

AES-128-CFB128 Decrypt NIST KAT #3
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "fffffffe0800000000000000000000000000": "00000000000000000000000000000000": "ed62e163636360fdd6ad621127940": "00000000000000000000000000000000"

AES-128-CFB128 Decrypt NIST KAT #4
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "3071a2a48fe6cbd04f1a129098e308f8": "00000000000000000000000000000000": "4b98e06d356eb07eb8245e5713f7be3": "00000000000000000000000000000000"

AES-128-CFB128 Decrypt NIST KAT #5
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "90f42ec0f68385f52fc5dfc03a654dce": "00000000000000000000000000000000": "7a20a53d4b0fc9c0423a7a0764c6cf2": "00000000000000000000000000000000"

AES-128-CFB128 Decrypt NIST KAT #6
depends_on:POLARSSL_CIPHER_MODE_CFB
AES-128-CFB128 Decrypt NIST KAT #7
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"00000000000000000000000000000000":"f34481ec3cc627baced5c3fb08f273e6":"0336763e966d92595a567cc9ce537f5e":"00000000000000000000000000000000";

AES-128-CFB128 Decrypt NIST KAT #8
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"00000000000000000000000000000000":"9798c4646bad75c73327db910174e72":"a9a1631bf4996954ebc093957b234589":"00000000000000000000000000000000";

AES-128-CFB128 Decrypt NIST KAT #9
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"00000000000000000000000000000000":"96ab5c2ff612d9dfaae8c31f30c42168":"ff4f8391af96d92595a567cc9ce537f5e":"00000000000000000000000000000000";

AES-128-CFB128 Decrypt NIST KAT #10
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"00000000000000000000000000000000":"fffffffffffffffc0000000000000000":"00000000000000000000000000000000":"8dfd999be5d0cfa35732c0dcd88ff5a5";

AES-192-CFB128 Encrypt NIST KAT #1
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"fffffffffffffffec0000000000000000":"ff397c3e7985fe0f5a50e2cdeb25e5109e":"ff397c3e7985fe0f5a50e2cdeb25e5109e":"ff397c3e7985fe0f5a50e2cdeb25e5109e";

AES-192-CFB128 Encrypt NIST KAT #2
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"fffffffffffffffec0000000000000000":"10d3ed7a6fe15ab491abc7d0767ab1":"00000000000000000000000000000000":"ff397c3e7985fe0f5a50e2cdeb25e5109e";

AES-192-CFB128 Encrypt NIST KAT #3
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"fffffffffffffffec0000000000000000":"ff397c3e7985fe0f5a50e2cdeb25e5109e":"ff397c3e7985fe0f5a50e2cdeb25e5109e":"ff397c3e7985fe0f5a50e2cdeb25e5109e";
AES-192-CFB128 Encrypt NIST KAT #4
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"d184c36cf0ddfe39e65419506022237871a47c33d3198":"00000000000000000000000000000000";"2619f6b60a3e1de016df483e97824a978"

AES-192-CFB128 Encrypt NIST KAT #5
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"4c6994ff9dcce80f5b6b0ec2e095353e42d95af8fcoa5f080":"00000000000000000000000000000000";"7656709538dd5fccc4e0ce6a0f8e207d"

AES-192-CFB128 Encrypt NIST KAT #6
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"c88f5b00a4ef6a68fe0e2acaf3f00b3de4c25885303fa72":"00000000000000000000000000000000";"a67cf333b314d41d3ca6e13cfd8f5"

AES-192-CFB128 Encrypt NIST KAT #7
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"9ec2d8842e5f48f57648250d39af":"00000000000000000000000000000000";"c9b8135ff1b5adc413d0f53b21bd96d"

AES-192-CFB128 Encrypt NIST KAT #8
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"bfff5251095f518ecca60af420544bb":"00000000000000000000000000000000";"4a3650c3371ce2eb35e389a171427440"

AES-192-CFB128 Encrypt NIST KAT #9
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"51719783d3185a535bd75071ce1":"00000000000000000000000000000000";"4f354592ff7c8847d2d0870cea9481b7c"

AES-192-CFB128 Encrypt NIST KAT #10
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"f34e4a6324ea4a5e39a661c8fe5ada8f":"00000000000000000000000000000000";"f34e4a6324ea4a5e39a661c8fe5ada8f"

AES-192-CFB128 Encrypt NIST KAT #11
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"3a3c15bfc11a9537c130687004e136ee":"00000000000000000000000000000000";"3a3c15bfc11a9537c130687004e136ee"

AES-192-CFB128 Decrypt NIST KAT #1
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"60136":"00000000000000000000000000000000";"60136"
AES-192-CFB128 Decrypt NIST KAT #2
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"000000000000000000000000000000000000000000000000":"ffffffffffffffffffff800000000000
":"d3427be7e4d27cd54f5fe37b03cf0897":"00000000000000000000000000000000"
AES-192-CFB128 Decrypt NIST KAT #12
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"000000000000000000000000000000000000000000000000":"ffffffffffffffffffffc00000000000
":"b2099795e88cc158fd75ea133d7e7fbe":"00000000000000000000000000000000"
AES-256-CFB128 Encrypt NIST KAT #1
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"ffffffe000000000000000000000000000000000000000000000000000000000":"000000000000
00000000000000000000":"00000000000000000000000000000000":"bbd1097a62433f79449fa97d4ee80dbf"
AES-256-CFB128 Encrypt NIST KAT #2
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"fffffff000000000000000000000000000000000000000000000000000000000":"000000000000
00000000000000000000":"00000000000000000000000000000000":"07058e408f5b99b0e0f061a1761b5b3b"
AES-256-CFB128 Encrypt NIST KAT #3
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"fffffff800000000000000000000000000000000000000000000000000000000":"000000000000
00000000000000000000":"00000000000000000000000000000000":"5fd1f13fa0f31e37fabde328f894eac2"
AES-256-CFB128 Encrypt NIST KAT #4
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"13428b5e4c005e0636dd338405d173ab135dec2a25c22c5df0722d69dcc43887":"00000000000
000000000000000000000":"00000000000000000000000000000000":"649a71545378c783e368c9ade7114f6c"
AES-256-CFB128 Encrypt NIST KAT #5
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"07eb03a08d291d1b07408bf3512ab40c91097ac77461aad4bb859647f74f00ee":"000000000000
00000000000000000000":"00000000000000000000000000000000":"47cb030da2ab051dfc6c4bf6910d12bb"
AES-256-CFB128 Encrypt NIST KAT #6
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"90143ae20cd78c5d8ebdd6cb9dc1762427a96c78c639bccc41a61424564eafe1":"000000000000
00000000000000000000":"00000000000000000000000000000000":"798c7c005dee432b2c8ea5dfa381ecc3"
AES-256-CFB128 Encrypt NIST KAT #7
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"0000000000000000000000000000000000000000000000000000000000000000":"0b24af3619
3ce4665f2825d7b4749c98":"00000000000000000000000000000000":"a9ff75bd7cf6613d3731c77c3b6d0c04"
AES-256-CFB128 Encrypt NIST KAT #8
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"0000000000000000000000000000000000000000000000000000000000000000":"761c1fe41a
18acf20d241650611d90f1":"00000000000000000000000000000000":"623a52fcea5d443e48d9181ab32c7421"

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AES-256-CFB128 Encrypt NIST KAT #9
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "8a560769d605868ad80d819bdba03771": "0000000000000000000000000000000000000000000000000000000000000000": "38f2c7ae10612415d27ca190d27da8b4"

AES-256-CFB128 Encrypt NIST KAT #10
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "fffffffffffffff00000000": "0000000000000000000000000000000000000000000000000000000000000000": "2be1fae5048a25582a679ca10905eb80"

AES-256-CFB128 Encrypt NIST KAT #11
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "fffffffffffffff00000000": "0000000000000000000000000000000000000000000000000000000000000000": "da86f292c6f41ea34fb2068df75ecec9"

AES-256-CFB128 Encrypt NIST KAT #12
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "fffffffffffffff80000000": "0000000000000000000000000000000000000000000000000000000000000000": "220df19f85d69b1b562fa69a3c5be5a5"

AES-256-CFB128 Decrypt NIST KAT #1
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "be66cfea2feced6bf0ec7b4352e99bc9a": "0000000000000000000000000000000000000000000000000000000000000000": "220df19f85d69b1b562fa69a3c5be5a5"

AES-256-CFB128 Decrypt NIST KAT #2
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "df3114f87a2ef523facdcf21a427804": "0000000000000000000000000000000000000000000000000000000000000000": "220df19f85d69b1b562fa69a3c5be5a5"

AES-256-CFB128 Decrypt NIST KAT #3
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "b5bb0f5629fb6aa5e1839a3c3625d63": "0000000000000000000000000000000000000000000000000000000000000000": "220df19f85d69b1b562fa69a3c5be5a5"

AES-256-CFB128 Decrypt NIST KAT #4
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "531c2e38344578b84d50b3c917bb6e1": "0000000000000000000000000000000000000000000000000000000000000000": "220df19f85d69b1b562fa69a3c5be5a5"

AES-256-CFB128 Decrypt NIST KAT #5
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "fcf6eac906323480005c58e7e1ab004ad": "0000000000000000000000000000000000000000000000000000000000000000": "220df19f85d69b1b562fa69a3c5be5a5"

AES-256-CFB128 Decrypt NIST KAT #6
depends_on:POLARSSL_CIPHER_MODE_CFB
AES-256-CFB128 Decrypt NIST KAT #7
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"0000000000000000000000000000000000000000000000000000000000000000":"761c1fe4a18acf2d02d241650611d90f1":"62a52fceda5d443e48d9181ab32c7421":"0000000000000000000000000000000000000000000000000000000000000000"

AES-256-CFB128 Decrypt NIST KAT #8
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"0000000000000000000000000000000000000000000000000000000000000000":"8a560769d605868ad80d819bd0a3771":"38f2c7ae10612415d27ca190d27da8b4":"0000000000000000000000000000000000000000000000000000000000000000"

AES-256-CFB128 Decrypt NIST KAT #9
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"0000000000000000000000000000000000000000000000000000000000000000":"91f0ef2d15a97816060bee1feda49afe":"1bc704f1bce135ceeb810341b216d7abe":"0000000000000000000000000000000000000000000000000000000000000000"

AES-256-CFB128 Decrypt NIST KAT #10
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"0000000000000000000000000000000000000000000000000000000000000000":"e0000000000000000000000000000000000000000000000000000000000000000"

AES-256-CFB128 Decrypt NIST KAT #11
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"0000000000000000000000000000000000000000000000000000000000000000":"f0000000000000000000000000000000000000000000000000000000000000000"

AES-256-CFB128 Decrypt NIST KAT #12
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"0000000000000000000000000000000000000000000000000000000000000000":"8000000000000000000000000000000000000000000000000000000000000000"
P =
C3CF8B9C8F9ED9E88B0CC35EC526F363FA0901DC9392E6CA81F3B414173955C822758B52038FAF8742B8C29DC32F5231B0D2E0289C25850C7DCDBFF46D0E7989E51DEA07A533BCF7947D4C95EBA28F9CBA3FB0267EC3BCF57B15A49964236B567738516621E546F410D504F13827218CD1A41FDB69522DC72DD6780E51B2E00894F
G = 04
00G^H
840000^H
00^H
0
*H
00t(\cap ca2;):eEy9;/_mV(u|k=3E2th=Ar9QeL?2zDM)jyW4\=]+\}YQjaMv&W9[z#02]<\}6z7HR[NgbSin^V@B_x2y|Ekdw^h6]=?1]/.8ARp-xM6]|N6s-6kDo;7UY@M1wUU_wh","o_Kdg"Om{^X8?5+EyV~$zT+g{b.mat,'cGB@tWZChw"F+\s[K"OrT9jF+[B6jUg"OMrNdI+=c Hu[T/gxJ(^,^s\_2)^uJT=\`kB%
%@EWQS}Q2@8/;t.|=$\{qJL=\SafV^
<ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <ShowProgress>NotSet</ShowProgress>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
    <AdditionalLibraryDirectories>Debug</AdditionalLibraryDirectories>
  </Link>
  <ProjectReference/>
</ClCompile>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)="Release|Win32">
  <ClCompile>
    <WarningLevel>Level3</WarningLevel>
    <PrecompiledHeader/>
    <Optimization>MaxSpeed</Optimization>
    <FunctionLevelLinking>true</FunctionLevelLinking>
    <IntrinsicFunctions>true</IntrinsicFunctions>
    <PreprocessorDefinitions>WIN32;NDEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
    <AdditionalIncludeDirectories>../../include</AdditionalIncludeDirectories>
  </ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <EnableCOMDATFolding>true</EnableCOMDATFolding>
    <OptimizeReferences>true</OptimizeReferences>
    <AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
  </Link>
</ItemDefinitionGroup>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)="Release|x64">
  <ClCompile>
    <WarningLevel>Level3</WarningLevel>
    <PrecompiledHeader/>
    <Optimization>MaxSpeed</Optimization>
    <FunctionLevelLinking>true</FunctionLevelLinking>
    <IntrinsicFunctions>true</IntrinsicFunctions>
    <PreprocessorDefinitions>WIN64;NDEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
    <AdditionalIncludeDirectories>../../include</AdditionalIncludeDirectories>
  </ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <EnableCOMDATFolding>true</EnableCOMDATFolding>
    <OptimizeReferences>true</OptimizeReferences>
    <AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
  </Link>
</ItemDefinitionGroup>
<SubSystem>Console</SubSystem>
<GenerateDebugInformation>true</GenerateDebugInformation>
<EnableCOMDATFolding>true</EnableCOMDATFolding>
<OptimizeReferences>true</OptimizeReferences>
<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
<AdditionalDependencies>%AdditionalDependencies;</AdditionalDependencies>
</Link>
</ItemDefinitionGroup>

<Import Project="$(VCTargetsPath)\Microsoft.Cpp.targets" />
<ImportGroup Label="ExtensionTargets" />
</ImportGroup>

Single low error
depends_on:POLARSSL_AES_C
error_strerror:-0x0020:"AES - Invalid key length"

Single high error
depends_on:POLARSSL_RSA_C
error_strerror:-0x4080:"RSA - Bad input parameters to function"

Low and high error
depends_on:POLARSSL_AES_C:POLARSSL_RSA_C
error_strerror:-0x40A0:"RSA - Bad input parameters to function \ AES - Invalid key length"

Non existing high error
error_strerror:-0x8880:"UNKNOWN ERROR CODE (8880)"

Non existing low error
error_strerror:-0x0001:"UNKNOWN ERROR CODE (0001)"

Non existing low and high error
error_strerror:-0x8881:"UNKNOWN ERROR CODE (8880) \ UNKNOWN ERROR CODE (0001)"

-----BEGIN ENCRYPTED PRIVATE KEY-----
MIIFDjBABgkqhkiG9w0BBQowMzAbBgkqhkiG9w0BBQwDgQJ4w7GI1sVqIRJMACgA
MBQGCCqGSIb3DQMHBajXOQ/kHb9EVASCMBg68SwrdD/DeKcPcKcE36wHvrK6wi7
CjwFv2u/fIICNUNXZBP14G7voL1XOLJ8h0WQqlErhaHo7yYW15K99t16wOpDGDzo
URvavOVT3ry/QLlTOGZvELnJb6oQ2AcL1qjDLux4xXqb3r129vR/EaCkB8CGSe
JxU+17bJjG0U6Dm28hd08J4qgBp9J5N6e/e8KlTlLu8ty6lkFPFumTN9zMV9VXRlo
Ajr1RIbIFXZ6uYjEnja2RIZwi89rn/iC/QzfsoF5r5uxw58zwz0/EdF/79gKoOX
jkKBwWN44LxJWucy3pm7xRurwZv0QZLeZcccVVecAaHmCRFfq+VpSnU5iDZEDL
0GU+CKXW+zDuuIFU3xL7WfFyqR12OviS2CdrkaTKSVBAEYCFQdGPQcp51WoZMnE
uaKKp0y58e5J0hMhx4kmk2saAacd0/YolHjk5zNeIz+sORwPEmo4ruZY/+wem/TG
KFQsVjHj/AsyQFsyaOrqQ4yOwxw52Vz6b7vrffaTdnKlyvJTvebEbhNmtNmt2N+i+wac/TVcedKMPUrNmpJyal61zWzWrVQmW1Q9qBinxHeGnNHk2QWTGZCQQCIxDTfPoE1
HC58ccD4h9tCBlF4rQmML/WmaGAQGUiTlx5ESJG1pKYXGqv1cr1p+j+MTjqfjApI
K0f93yAvx4s42onWe9DPOB0j5MuIezEVZQeq7mt7QeNp9unjzDVRq/fmsvIIB0
t5HFXV4JJoF2frwP0jEkyHxxlqZbVz5rbwtV1601molDzjTNBcYbUB0IUIlj9f
mM351AFWZtrXXvsk5ZRFQU2jB7DFP9zHwsa7quhvhv4t498rXsW7Y1AqflaU/
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wVK+3Fca7AGrlQ8YmzV0uOowoTMvKbLNIiilGI6QsgWRhmOlwHdINrVhazI6ybRLty ppMaql0gDu8l8/8SMCcey8y8nderXW/0QxCZjQ3gEDufqxjC2leOfEbcHML1s6p+9B qaPji37YxcQZMD9g4jYXuawHszq55B/MegD5sfvTI3q+qsQnleXUz2gJ+MBIH Qp6fHZms2woAbvFyXAXSUeKAOZnW1TRnRnmj6SWtE9aPmMWyXyzTukesh+CpzEqi BdBzi3aYxu9Z694Cg1eXoPfhr6u6svZAO1pEUIUDUPhMmG9pjxQ1xK40yydMZ +9uAVdGX118uwwZ6AI4bPPOOmwI2X1xvmFFG3rVHVD9JIGj1HGWPZi0f/EaV k5SYhr0410LR90v94rVh6q/zE5QcLCmXyH5W9vF3RJDakA4caralF5RPy8sEJ NczZrXcKtUc/7e6VCm03agouzzrXKXX56v0p0CYgdU3ozTO72JrFQY2KjpJp0nZ RWWjd12r7XYVQoRqD5aXZ3/mgT7Fld4Rb6+vjEiLezWgUTo3B420GW8Wp4Aw d4qba41IVWp+i+HZvIqOPaL+nZgFS22ygotYvVYyDj7lceh9cdMsarZFAxisVQK2 z2DnyslF4dkDdUjFIU7QJUPwqjRVC8Mec45j9zpuzu82zQ8Fub7ldtECsby oq0smBG1vd+ozMPr3yvU7X7jaam4toW+dG3QOxnUO2GYb/BAEmOB4CWWbKSfyl tfM=

-----END ENCRYPTED PRIVATE KEY-----
unique_subject = no
-----BEGIN CERTIFICATE REQUEST-----

<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" ToolsVersion="4.0"
xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
    <ProjectGroup Label="ProjectConfigurations">
        <ProjectConfiguration Include="Debug|Win32">
            <Configuration>Debug</Configuration>
            <Platform>Win32</Platform>
        </ProjectConfiguration>
        <ProjectConfiguration Include="Debug|x64">
            <Configuration>Debug</Configuration>
            <Platform>x64</Platform>
        </ProjectConfiguration>
    </ProjectGroup>
</Project>

-----END CERTIFICATE REQUEST-----

"xml version="1.0" encoding="utf-8"?"" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
    <ProjectGroup Label="ProjectConfigurations">
        <ProjectConfiguration Include="Debug|Win32">
            <Configuration>Debug</Configuration>
            <Platform>Win32</Platform>
        </ProjectConfiguration>
        <ProjectConfiguration Include="Debug|x64">
            <Configuration>Debug</Configuration>
            <Platform>x64</Platform>
        </ProjectConfiguration>
    </ProjectGroup>
</Project>

"xml version="1.0" encoding="utf-8"?"" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
    <ProjectGroup Label="ProjectConfigurations">
        <ProjectConfiguration Include="Debug|Win32">
            <Configuration>Debug</Configuration>
            <Platform>Win32</Platform>
        </ProjectConfiguration>
        <ProjectConfiguration Include="Debug|x64">
            <Configuration>Debug</Configuration>
            <Platform>x64</Platform>
        </ProjectConfiguration>
    </ProjectGroup>
</Project>

"xml version="1.0" encoding="utf-8"?"" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
    <ProjectGroup Label="ProjectConfigurations">
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            <Configuration>Release</Configuration>
            <Platform>Win32</Platform>
        </ProjectConfiguration>
        <ProjectConfiguration Include="Release|x64">
            <Configuration>Release</Configuration>
            <Platform>x64</Platform>
        </ProjectConfiguration>
    </ProjectGroup>
</Project>

"xml version="1.0" encoding="utf-8"?"" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
    <ProjectGroup Label="ProjectConfigurations">
        <ProjectConfiguration Include="Release|Win32">
            <Configuration>Release</Configuration>
            <Platform>Win32</Platform>
        </ProjectConfiguration>
        <ProjectConfiguration Include="Release|x64">
            <Configuration>Release</Configuration>
            <Platform>x64</Platform>
        </ProjectConfiguration>
    </ProjectGroup>
</Project>
<Configuration>Release</Configuration>
</Platform>x64</Platform>
</ProjectConfiguration>
</ItemGroup>
<ItemGroup>
<ClCompile Include="..\..\programs\pkey\rsa_verify_pss.c" />
</ItemGroup>
<ItemGroup>
<ProjectReference Include="PolarSSL.vcxproj">
<Project>{46cf2d25-6a36-4189-b59c-e4815388e554}</Project>
</ProjectReference>
</ItemGroup>
<PropertyGroup Label="Globals">
<ProjectGuid>{22142D77-6986-4C71-8386-0184A8E7A1E6}</ProjectGuid>
<Keyword>Win32Proj</Keyword>
<RootNamespace>rsa_verify_pss</RootNamespace>
</PropertyGroup>
<PropertyGroup Condition="$(VCTargetsPath)\Microsoft.Cpp.Default.props" />
<PropertyGroup Condition="$(Configuration)|$(Platform)=="Debug|Win32" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>true</UseDebugLibraries>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
<PropertyGroup Condition="$(Configuration)|$(Platform)=="Debug|x64" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>true</UseDebugLibraries>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
<PropertyGroup Condition="$(Configuration)|$(Platform)=="Release|Win32" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>false</UseDebugLibraries>
<WholeProgramOptimization>true</WholeProgramOptimization>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
<PropertyGroup Condition="$(Configuration)|$(Platform)=="Release|x64" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>false</UseDebugLibraries>
<WholeProgramOptimization>true</WholeProgramOptimization>
<CharacterSet>Unicode</CharacterSet>
<PlatformToolset>Windows7.1SDK</PlatformToolset>
</PropertyGroup>
<Import Project="$(VCTargetsPath)\Microsoft.Cpp.props" />
<ImportGroup Label="ExtensionSettings" />
</ImportGroup>
<ImportGroup Label="PropertySheets" Condition="$(Configuration)|$(Platform)=="Debug|Win32"">
</ImportGroup>
<ClCompile>
  <PrecompiledHeader/>
  <WarningLevel>Level3</WarningLevel>
  <Optimization>Disabled</Optimization>
  <PreprocessorDefinitions>WIN32;_DEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
  <AdditionalIncludeDirectories>./include</AdditionalIncludeDirectories>
</ClCompile>

<Link>
  <SubSystem>Console</SubSystem>
  <GenerateDebugInformation>true</GenerateDebugInformation>
  <ShowProgress>NotSet</ShowProgress>
  <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbc32.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
  <AdditionalLibraryDirectories>Debug</AdditionalLibraryDirectories>
</Link>

<ProjectReference>
  <LinkLibraryDependencies>false</LinkLibraryDependencies>
</ProjectReference>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)='Release|Win32'">
  <ClCompile>
    <WarningLevel>Level3</WarningLevel>
    <PrecompiledHeader/>
    <Optimization>MaxSpeed</Optimization>
    <FunctionLevelLinking>true</FunctionLevelLinking>
    <IntrinsicFunctions>true</IntrinsicFunctions>
    <PreprocessorDefinitions>WIN32;NDEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
    <AdditionalIncludeDirectories>./include</AdditionalIncludeDirectories>
  </ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <EnableCOMDATFolding>true</EnableCOMDATFolding>
    <OptimizeReferences>true</OptimizeReferences>
    <AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbc32.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
  </Link>
</ItemDefinitionGroup>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)='Release|x64'">
  <ClCompile>
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    <PrecompiledHeader/>
    <Optimization>MaxSpeed</Optimization>
    <FunctionLevelLinking>true</FunctionLevelLinking>
    <IntrinsicFunctions>true</IntrinsicFunctions>
    <PreprocessorDefinitions>WIN32;NDEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
    <AdditionalIncludeDirectories>./include</AdditionalIncludeDirectories>
  </ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <EnableCOMDATFolding>true</EnableCOMDATFolding>
    <OptimizeReferences>true</OptimizeReferences>
    <AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbc32.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
  </Link>
</ItemDefinitionGroup>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)='Release|x64'">
  <ClCompile>
    <WarningLevel>Level3</WarningLevel>
    <PrecompiledHeader/>
    <Optimization>MaxSpeed</Optimization>
    <FunctionLevelLinking>true</FunctionLevelLinking>
    <IntrinsicFunctions>true</IntrinsicFunctions>
    <PreprocessorDefinitions>WIN32;NDEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
    <AdditionalIncludeDirectories>./include</AdditionalIncludeDirectories>
  </ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <EnableCOMDATFolding>true</EnableCOMDATFolding>
    <OptimizeReferences>true</OptimizeReferences>
    <AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbc32.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
  </Link>
</ItemDefinitionGroup>
<Optimization>MaxSpeed</Optimization>
<FunctionLevelLinking>true</FunctionLevelLinking>
<IntrinsicFunctions>true</IntrinsicFunctions>
<PreprocessorDefinitions>WIN64;NDEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
<AdditionalIncludeDirectories>./include</AdditionalIncludeDirectories>

</CCompile>

<Link>
<SubSystem>Console</SubSystem>
<GenerateDebugInformation>true</GenerateDebugInformation>
<EnableCOMDATFolding>true</EnableCOMDATFolding>
<OptimizeReferences>true</OptimizeReferences>
<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
<AdditionalDependencies>%(AdditionalDependencies)</AdditionalDependencies>
</Link>

</ItemDefinitionGroup>

<Import Project="$(VCTargetsPath)\Microsoft.Cpp.targets" />
<ImportGroup Label="ExtensionTargets">
</ImportGroup>

</Project>

Debug print certificate #1
depends_on:POLARSSL_FS_IO:POLARSSL_PEM_C:POLARSSL_BASE64_C
debug_print_crt:"data_files/server1.crt":"MyFile":999:"PREFIX_":"MyFile(999)"; PREFIX_ #1;\nunMyFile(999)\n.cert. version \n3nMyFile(999)\n.serial number \n01\nunMyFile(999)\n.issuer name \nC=NL, O=PolarSSL, CN=PolarSSL Test CA\nunMyFile(999)\n.subject name \nC=NL, O=PolarSSL, CN=PolarSSL Server\nunMyFile(999)\n.issued on \n2011-02-12 14:44\n06\nunMyFile(999)\n.expires on \n2021-02-12 14:44\n06\nunMyFile(999)\n.signed using \nRSA+SHA1\nunMyFile(999)\n.RSA key size \n2048\nbits\nunMyFile(999)\n.value of 'crt->rsa.N' (2048 bits) \nunMyFile(999)\n.a9 02 1f 3d 40 6a d5 55 53 8b fd 36 ee 82 65 2e\nunMyFile(999)\n.15 61 5e 89 b6 e8 45 90 db ee 88 16 52 d3\nunMyFile(999)\n.43 50 47 96 12 59 64 87 6b fd 2b e0 46 f9 73 be\nunMyFile(999)\ndd cf 92 e1 91 5b ed 66 a0 6f 89 29 79 45 80\nunMyFile(999)\n.83 6a d5 41 43 77 5f 39 7c 09 04 47 82 b0 57 39\nunMyFile(999)\n.70 ed a3 ec 15 19 1e a8 33 08 47 c1 05 42 a9\nunMyFile(999)\n.4c c3 b4 df dd 06 1f 4d 10 51 40 67 73 13\nunMyFile(999)\n.0f 40\nunMyFile(999)\n.f8 6d 81 25 5f 0a b1 53 c6 30\nunMyFile(999)\n.7e 15 39 ac f9 5a\nunMyFile(999)\n.ee 7f 92 9e a6 05 5b e7 13 97 85 b5 23 92 d9\nunMyFile(999)\n.24 06 d5 09\nunMyFile(999)\n25 89 75 07 dd a6 1a 8f 3f 09 19 be\nunMyFile(999)\nad 65 2c 64 eb 95 9b dc fe 41 5e 17 a6 da 6c\nunMyFile(999)\n5b\nunMyFile(999)\n.69 cc 02 ba 14 2c 16 24 9c 4a dc cd d0\nunMyFile(999)\n.73 f1 2d a0 23 fd 7e f4 31 ca 2d 70 ca 89 0b\nunMyFile(999)\n.db 2e a6 4f 70 6e 9e ce bd 58 89 e2 53 59 9e\nunMyFile(999)\n.5a 92 65 e2\nunMyFile(999)\n88 3f 0c 94 19 a3 dd e5 e8 9d 95 13\nunMyFile(999)\n.29 db ab 70 12 dc 5a ca 6b 17 ab 52 82 54\nunMyFile(999)\n.value of 'crt->rsa.E' (17 bits) \nunMyFile(999)\n.01 00 01\n
Debug print mpi #1
debug_print_mpi:16:"0120304050607":"MyFile":999:"VALUE":"MyFile(999)"; value of 'VALUE' (49 bits) \nunMyFile(999)\n.01 02 03 04 05 06 07\n
Debug print mpi #2
debug_print_mpi:16:"00000000000007":"MyFile":999:"VALUE":"MyFile(999)"; value of 'VALUE' (3 bits) \nunMyFile(999)\n.07\n
Debug print mpi #3
debug_print_mpi:16:"0000000000000000":"MyFile":999:"VALUE":"MyFile(999)"; value of 'VALUE' (0 bits)
# This file describes the settings to be used by the documentation system
# doxygen (www.doxygen.org) for a project
#
# All text after a hash (#) is considered a comment and will be ignored
# The format is:
#   TAG = value [value, ...]
# For lists items can also be appended using:
#   TAG += value [value, ...]
# Values that contain spaces should be placed between quotes (" ")

#---------------------------------------------
# Project related configuration options
#---------------------------------------------

# This tag specifies the encoding used for all characters in the config file
# that follow. The default is UTF-8 which is also the encoding used for all
# text before the first occurrence of this tag. Doxygen uses libiconv (or the
# iconv built into libc) for the transcoding. See
# http://www.gnu.org/software/libiconv for the list of possible encodings.

DOXYFILE_ENCODING      = UTF-8

# The PROJECT_NAME tag is a single word (or a sequence of words surrounded
# by quotes) that should identify the project.

PROJECT_NAME           = "PolarSSL v1.2.8"

# The PROJECT_NUMBER tag can be used to enter a project or revision number.
# This could be handy for archiving the generated documentation or
# if some version control system is used.

PROJECT_NUMBER         =

# The OUTPUT_DIRECTORY tag is used to specify the (relative or absolute)
# base path where the generated documentation will be put.
# If a relative path is entered, it will be relative to the location
# where doxygen was started. If left blank the current directory will be used.

OUTPUT_DIRECTORY       = apidoc/

# If the CREATE_SUBDIRS tag is set to YES, then doxygen will create
# 4096 sub-directories (in 2 levels) under the output directory of each output
# format and will distribute the generated files over these directories.
# Enabling this option can be useful when feeding doxygen a huge amount of
# source files, where putting all generated files in the same directory would
# otherwise cause performance problems for the file system.

CREATE_SUBDIRS         = NO
# The OUTPUT_LANGUAGE tag is used to specify the language in which all
# documentation generated by doxygen is written. Doxygen will use this
# information to generate all constant output in the proper language.
# The default language is English, other supported languages are:
# Afrikaans, Arabic, Brazilian, Catalan, Chinese, Chinese-Traditional,
# Croatian, Czech, Danish, Dutch, Esperanto, Farsi, Finnish, French, German,
# Greek, Hungarian, Italian, Japanese, Japanese-en (Japanese with English
# messages), Korean, Korean-en, Lithuanian, Norwegian, Macedonian, Persian,
# Polish, Portuguese, Romanian, Russian, Serbian, Serbian-Cyrilic, Slovak,
# Slovene, Spanish, Swedish, Ukrainian, and Vietnamese.

OUTPUT_LANGUAGE = English

# If the BRIEF_MEMBER_DESC tag is set to YES (the default) Doxygen will
# include brief member descriptions after the members that are listed in
# the file and class documentation (similar to JavaDoc).
# Set to NO to disable this.

BRIEF_MEMBER_DESC = YES

# If the REPEAT_BRIEF tag is set to YES (the default) Doxygen will prepend
# the brief description of a member or function before the detailed description.
# Note: if both HIDE_UNDOC_MEMBERS and BRIEF_MEMBER_DESC are set to NO, the
# brief descriptions will be completely suppressed.

REPEAT_BRIEF = YES

# This tag implements a quasi-intelligent brief description abbreviator
# that is used to form the text in various listings. Each string
# in this list, if found as the leading text of the brief description, will be
# stripped from the text and the result after processing the whole list, is
# used as the annotated text. Otherwise, the brief description is used as-is.
# If left blank, the following values are used ("$name" is automatically
# replaced with the name of the entity): "$name class" "The $name widget"
# "$name file" "is" "provides" "specifies" "contains"
# "represents" "a" "an" "the"

ABBRIEVIATE_BRIEF = "The $name class" \\
         "The $name widget" \\
         "The $name file" \\
         is \\
         provides \\
         specifies \\
         contains \\
         represents \\
         a \\
         an \\

the

# If the ALWAYS_DETAILED_SEC and REPEAT_BRIEF tags are both set to YES then
# Doxygen will generate a detailed section even if there is only a brief
# description.

ALWAYS_DETAILED_SEC = NO

# If the INLINE_INHERITED_MEMB tag is set to YES, doxygen will show all
# inherited members of a class in the documentation of that class as if those
# members were ordinary class members. Constructors, destructors and assignment
# operators of the base classes will not be shown.

INLINE_INHERITED_MEMB = NO

# If the FULL_PATH_NAMES tag is set to YES then Doxygen will prepend the full
# path before files name in the file list and in the header files. If set
# to NO the shortest path that makes the file name unique will be used.

FULL_PATH_NAMES = NO

# If the FULL_PATH_NAMES tag is set to YES then the STRIP_FROM_PATH tag
# can be used to strip a user-defined part of the path. Stripping is
# only done if one of the specified strings matches the left-hand part of
# the path. The tag can be used to show relative paths in the file list.
# If left blank the directory from which doxygen is run is used as the
# path to strip.

STRIP_FROM_PATH =

# The STRIP_FROM_INC_PATH tag can be used to strip a user-defined part of
# the path mentioned in the documentation of a class, which tells
# the reader which header file to include in order to use a class.
# If left blank only the name of the header file containing the class
# definition is used. Otherwise one should specify the include paths that
# are normally passed to the compiler using the -I flag.

STRIP_FROM_INC_PATH =

# If the SHORT_NAMES tag is set to YES, doxygen will generate much shorter
# (but less readable) file names. This can be useful is your file systems
# doesn't support long names like on DOS, Mac, or CD-ROM.

SHORT_NAMES = NO

# If the JAVADOC_AUTOBRIEF tag is set to YES then Doxygen
# will interpret the first line (until the first dot) of a JavaDoc-style
# comment as the brief description. If set to NO, the JavaDoc
# comments will behave just like regular Qt-style comments
# (thus requiring an explicit @brief command for a brief description.)

JAVADOC_AUTOBRIEF = YES

# If the QT_AUTOBRIEF tag is set to YES then Doxygen will
# interpret the first line (until the first dot) of a Qt-style
# comment as the brief description. If set to NO, the comments
# will behave just like regular Qt-style comments (thus requiring
# an explicit \brief command for a brief description.)

QT_AUTOBRIEF = NO

# The MULTILINE_CPP_IS_BRIEF tag can be set to YES to make Doxygen
# treat a multi-line C++ special comment block (i.e. a block of /** or ///</
# comments) as a brief description. This used to be the default behaviour.
# The new default is to treat a multi-line C++ comment block as a detailed
# description. Set this tag to YES if you prefer the old behaviour instead.

MULTILINE_CPP_IS_BRIEF = NO

# If the INHERIT_DOCS tag is set to YES (the default) then an undocumented
# member inherits the documentation from any documented member that it
# re-implements.

INHERIT_DOCS = YES

# If the SEPARATE_MEMBER_PAGES tag is set to YES, then doxygen will produce
# a new page for each member. If set to NO, the documentation of a member will
# be part of the file/class/namespace that contains it.

SEPARATE_MEMBER_PAGES = NO

# The TAB_SIZE tag can be used to set the number of spaces in a tab.
# Doxygen uses this value to replace tabs by spaces in code fragments.

TAB_SIZE = 8

# This tag can be used to specify a number of aliases that acts
# as commands in the documentation. An alias has the form "name=value".
# For example adding "sideeffect=\par Side Effects:\n" will allow you to
# put the command sideeffect (or @sideeffect) in the documentation, which
# will result in a user-defined paragraph with heading "Side Effects:".
# You can put \n's in the value part of an alias to insert newlines.

ALIASES =

# Set the OPTIMIZE_OUTPUT_FOR_C tag to YES if your project consists of C
# sources only. Doxygen will then generate output that is more tailored for C.
# For instance, some of the names that are used will be different. The list
# of all members will be omitted, etc.

OPTIMIZE_OUTPUT_FOR_C = YES

# Set the OPTIMIZE_OUTPUT_JAVA tag to YES if your project consists of Java
# sources only. Doxygen will then generate output that is more tailored for
# Java. For instance, namespaces will be presented as packages, qualified
# scopes will look different, etc.

OPTIMIZE_OUTPUT_JAVA = NO

# Set the OPTIMIZE_FOR_FORTRAN tag to YES if your project consists of Fortran
# sources only. Doxygen will then generate output that is more tailored for
# Fortran.

OPTIMIZE_FOR_FORTRAN = NO

# Set the OPTIMIZE_OUTPUT_VHDL tag to YES if your project consists of VHDL
# sources. Doxygen will then generate output that is tailored for
# VHDL.

OPTIMIZE_OUTPUT_VHDL = NO

# Doxygen selects the parser to use depending on the extension of the files it parses.
# With this tag you can assign which parser to use for a given extension.
# Doxygen has a built-in mapping, but you can override or extend it using this tag.
# The format is ext=language, where ext is a file extension, and language is one of
# the parsers supported by doxygen: IDL, Java, Javascript, C#, C, C++, D, PHP,
# Objective-C, Python, Fortran, VHDL, C, C++. For instance to make doxygen treat
# .inc files as Fortran files (default is PHP), and .f files as C (default is Fortran),
# use: inc=Fortran f=C. Note that for custom extensions you also need to set FILE_PATTERNS otherwise the files
# are not read by doxygen.

EXTENSION_MAPPING =

# If you use STL classes (i.e. std::string, std::vector, etc.) but do not want
# to include (a tag file for) the STL sources as input, then you should
# set this tag to YES in order to let doxygen match functions declarations and
# definitions whose arguments contain STL classes (e.g. func(std::string); v.s.
# func(std::string) { }). This also make the inheritance and collaboration
# diagrams that involve STL classes more complete and accurate.

BUILTIN_STL_SUPPORT = NO

# If you use Microsoft's C++/CLI language, you should set this option to YES to
# enable parsing support.
CPP_CLI_SUPPORT = NO

# Set the SIP_SUPPORT tag to YES if your project consists of sip sources only.
# Doxygen will parse them like normal C++ but will assume all classes use public
# instead of private inheritance when no explicit protection keyword is present.

SIP_SUPPORT = NO

# For Microsoft's IDL there are propget and propput attributes to indicate getter
# and setter methods for a property. Setting this option to YES (the default)
# will make doxygen to replace the get and set methods by a property in the
# documentation. This will only work if the methods are indeed getting or
# setting a simple type. If this is not the case, or you want to show the
# methods anyway, you should set this option to NO.

IDLPROPERTY_SUPPORT = YES

# If member grouping is used in the documentation and the DISTRIBUTE_GROUP_DOC
# tag is set to YES, then doxygen will reuse the documentation of the first
# member in the group (if any) for the other members of the group. By default
# all members of a group must be documented explicitly.

DISTRIBUTE_GROUP_DOC = NO

# Set the SUBGROUPING tag to YES (the default) to allow class member groups of
# the same type (for instance a group of public functions) to be put as a
# subgroup of that type (e.g. under the Public Functions section). Set it to
# NO to prevent subgrouping. Alternatively, this can be done per class using
# the \nosubgrouping command.

SUBGROUPING = YES

# When TYPEDEF_HIDES_STRUCT is enabled, a typedef of a struct, union, or enum
# is documented as struct, union, or enum with the name of the typedef. So
# typedef struct TypeS {} TypeT, will appear in the documentation as a struct
# with name TypeT. When disabled the typedef will appear as a member of a file,
# namespace, or class. And the struct will be named TypeS. This can typically
# be useful for C code in case the coding convention dictates that all compound
# types are typedef'ed and only the typedef is referenced, never the tag name.

TYPEDEF_HIDES_STRUCT = NO

# The SYMBOL_CACHE_SIZE determines the size of the internal cache use to
# determine which symbols to keep in memory and which to flush to disk.
# When the cache is full, less often used symbols will be written to disk.
# For small to medium size projects (<1000 input files) the default value is
# probably good enough. For larger projects a too small cache size can cause
doxygen to be busy swapping symbols to and from disk most of the time
causing a significant performance penalty.
If the system has enough physical memory increasing the cache will improve the
performance by keeping more symbols in memory. Note that the value works on
a logarithmic scale so increasing the size by one will roughly double the
memory usage. The cache size is given by this formula:
2^(16+SYMBOL_CACHE_SIZE). The valid range is 0..9, the default is 0,
corresponding to a cache size of 2^16 = 65536 symbols

SYMBOL_CACHE_SIZE   = 0

# Build related configuration options

EXTRACT_ALL            = YES
EXTRACT_PRIVATE        = YES
EXTRACT_STATIC         = YES
EXTRACT_LOCAL_CLASSES  = YES
EXTRACT_LOCAL_METHODS  = YES
EXTRACT_LOCAL_CLASSES  = YES
EXTRACT_LOCAL_METHODS  = YES

# This flag is only useful for Objective-C code. When set to YES local
# methods, which are defined in the implementation section but not in
# the interface are included in the documentation.
# If set to NO (the default) only methods in the interface are included.

EXTRACT_LOCAL_METHODS  = YES

# If this flag is set to YES, the members of anonymous namespaces will be
# extracted and appear in the documentation as a namespace called
# 'anonymous_namespace{file}', where file will be replaced with the base
# name of the file that contains the anonymous namespace. By default anonymous namespace are hidden.

EXTRACT_ANON_NSPACES = YES

# If the HIDE_UNDOC_MEMBERS tag is set to YES, Doxygen will hide all undocumented members of documented classes, files or namespaces.
# If set to NO (the default) these members will be included in the various overviews, but no documentation section is generated.
# This option has no effect if EXTRACT_ALL is enabled.

HIDE_UNDOC_MEMBERS = NO

# If the HIDE_UNDOC_CLASSES tag is set to YES, Doxygen will hide all undocumented classes that are normally visible in the class hierarchy.
# If set to NO (the default) these classes will be included in the various overviews. This option has no effect if EXTRACT_ALL is enabled.

HIDE_UNDOC_CLASSES = NO

# If the HIDE_FRIEND_COMPOUNDS tag is set to YES, Doxygen will hide all friend (class|struct|union) declarations.
# If set to NO (the default) these declarations will be included in the documentation.

HIDE_FRIEND_COMPOUNDS = NO

# If the HIDE_IN_BODY_DOCS tag is set to YES, Doxygen will hide any documentation blocks found inside the body of a function.
# If set to NO (the default) these blocks will be appended to the function's detailed documentation block.

HIDE_IN_BODY_DOCS = NO

# The INTERNAL_DOCS tag determines if documentation that is typed after a `\internal` command is included. If the tag is set to NO (the default) then the documentation will be excluded.
# Set it to YES to include the internal documentation.

INTERNAL_DOCS = NO

# If the CASE SENSE NAMES tag is set to NO then Doxygen will only generate file names in lower-case letters. If set to YES upper-case letters are also allowed. This is useful if you have classes or files whose names only differ in case and if your file system supports case sensitive file names. Windows and Mac users are advised to set this option to NO.

CASE SENSE NAMES = NO
# If the HIDE_SCOPE_NAMES tag is set to NO (the default) then Doxygen
# will show members with their full class and namespace scopes in the
# documentation. If set to YES the scope will be hidden.

HIDE_SCOPE_NAMES = NO

# If the SHOW_INCLUDE_FILES tag is set to YES (the default) then Doxygen
# will put a list of the files that are included by a file in the documentation
# of that file.

SHOW_INCLUDE_FILES = YES

# If the FORCE_LOCAL_INCLUDES tag is set to YES then Doxygen
# will list include files with double quotes in the documentation
# rather than with sharp brackets.

FORCE_LOCAL_INCLUDES = NO

# If the INLINE_INFO tag is set to YES (the default) then a tag [inline]
# is inserted in the documentation for inline members.

INLINE_INFO = YES

# If the SORT_MEMBER_DOCS tag is set to YES (the default) then doxygen
# will sort the (detailed) documentation of file and class members
# alphabetically by member name. If set to NO the members will appear in
# declaration order.

SORT_MEMBER_DOCS = YES

# If the SORT_BRIEF_DOCS tag is set to YES then doxygen will sort the
# brief documentation of file, namespace and class members alphabetically
# by member name. If set to NO (the default) the members will appear in
# declaration order.

SORT_BRIEF_DOCS = NO

# If the SORT_MEMBERS_CTORS_1ST tag is set to YES then doxygen will sort the (brief and detailed)
documentation of class members so that constructors and destructors are listed first. If set to NO (the default) the
constructors will appear in the respective orders defined by SORT_MEMBER_DOCS and SORT_BRIEF_DOCS.
This tag will be ignored for brief docs if SORT_BRIEF_DOCS is set to NO and ignored for detailed docs if
SORT_MEMBER_DOCS is set to NO.

SORT_MEMBERS_CTORS_1ST = NO

# If the SORT_GROUP_NAMES tag is set to YES then doxygen will sort the
# hierarchy of group names into alphabetical order. If set to NO (the default)
SORT_GROUP_NAMES = NO

SORT_BY_SCOPE_NAME = NO

GENERATE_TODOLIST = YES

GENERATE_TESTLIST = YES

GENERATE_BUGLIST = YES

GENERATE_DEPRECATEDLIST = YES

ENABLED_SECTIONS =

MAX_INITIALIZER_LINES
# documentation can be controlled using `\showinitializer` or `\hideinitializer` command in the documentation regardless of this setting.

MAX_INITIALIZER_LINES = 30

# Set the SHOW_USED_FILES tag to NO to disable the list of files generated at the bottom of the documentation of classes and structs. If set to YES the list will mention the files that were used to generate the documentation.

SHOW_USED_FILES = YES

# If the sources in your project are distributed over multiple directories then setting the SHOW_DIRECTORIES tag to YES will show the directory hierarchy in the documentation. The default is NO.

SHOW_DIRECTORIES = YES

# Set the SHOW_FILES tag to NO to disable the generation of the Files page. This will remove the Files entry from the Quick Index and from the Folder Tree View (if specified). The default is YES.

SHOW_FILES = YES

# Set the SHOW_NAMESPACES tag to NO to disable the generation of the Namespaces page. This will remove the Namespaces entry from the Quick Index and from the Folder Tree View (if specified). The default is YES.

SHOW_NAMESPACES = YES

# The FILE_VERSION_FILTER tag can be used to specify a program or script that doxygen should invoke to get the current version for each file (typically from the version control system). Doxygen will invoke the program by executing (via `popen()`)
# the command `<command> <input-file>`, where `<command>` is the value of the FILE_VERSION_FILTER tag, and `<input-file>` is the name of an input file provided by doxygen. Whatever the program writes to standard output is used as the file version. See the manual for examples.

FILE_VERSION_FILTER =

# The LAYOUT_FILE tag can be used to specify a layout file which will be parsed by doxygen. The layout file controls the global structure of the generated output files in an output format independent way. The create the layout file that represents doxygen's defaults, run doxygen with the `-l` option. You can optionally specify a file name after the option, if omitted DoxygenLayout.xml will be used as the name # of the layout file.

LAYOUT_FILE =

# configuration options related to warning and progress messages

# The QUIET tag can be used to turn on/off the messages that are generated
# by doxygen. Possible values are YES and NO. If left blank NO is used.

QUIET = NO

# The WARNINGS tag can be used to turn on/off the warning messages that are
# generated by doxygen. Possible values are YES and NO. If left blank
# NO is used.

WARNINGS = YES

# If WARN_IF_UNDOCUMENTED is set to YES, then doxygen will generate warnings
# for undocumented members. If EXTRACT_ALL is set to YES then this flag will
# automatically be disabled.

WARN_IF_UNDOCUMENTED = YES

# If WARN_IF_DOC_ERROR is set to YES, doxygen will generate warnings for
# potential errors in the documentation, such as not documenting some
# parameters in a documented function, or documenting parameters that
# don't exist or using markup commands wrongly.

WARN_IF_DOC_ERROR = YES

# This WARN_NO_PARAMDOC option can be abled to get warnings for
# functions that are documented, but have no documentation for their parameters
# or return value. If set to NO (the default) doxygen will only warn about
# wrong or incomplete parameter documentation, but not about the absence of
# documentation.

WARN_NO_PARAMDOC = NO

# The WARN_FORMAT tag determines the format of the warning messages that
# doxygen can produce. The string should contain the $file, $line, and $text
# tags, which will be replaced by the file and line number from which the
# warning originated and the warning text. Optionally the format may contain
# $version, which will be replaced by the version of the file (if it could
# be obtained via FILE_VERSION_FILTER)

WARN_FORMAT = "$file:$line: $text"

# The WARN_LOGFILE tag can be used to specify a file to which warning
# and error messages should be written. If left blank the output is written
# to stderr.

WARN_LOGFILE =

#-------------------------------------------------------------
# configuration options related to the input files
#-------------------------------------------------------------

# The INPUT tag can be used to specify the files and/or directories that contain
# documented source files. You may enter file names like "myfile.cpp" or
# directories like "/usr/src/myproject". Separate the files or directories
# with spaces.

INPUT = .

# This tag can be used to specify the character encoding of the source files
# that doxygen parses. Internally doxygen uses the UTF-8 encoding, which is
# also the default input encoding. Doxygen uses libiconv (or the iconv built
# into libc) for the transcoding. See http://www.gnu.org/software/libiconv for
# the list of possible encodings.

INPUT_ENCODING = UTF-8

# If the value of the INPUT tag contains directories, you can use the
# FILE_PATTERNS tag to specify one or more wildcard pattern (like *.cpp
# and *.h) to filter out the source-files in the directories. If left
# blank the following patterns are tested:

FILE_PATTERNS = *.c 
                *.*

# The RECURSIVE tag can be used to turn specify whether or not subdirectories
# should be searched for input files as well. Possible values are YES and NO.
# If left blank NO is used.

RECURSIVE = YES

# The EXCLUDE tag can be used to specify files and/or directories that should
# excluded from the INPUT source files. This way you can easily exclude a
# subdirectory from a directory tree whose root is specified with the INPUT tag.

EXCLUDE = tests/fct.h 
          programs 
          CMakeFiles

# The EXCLUDE_SYMLINKS tag can be used select whether or not files or
directories that are symbolic links (a Unix filesystem feature) are excluded
from the input.

EXCLUDE_SYMLINKS = NO

# If the value of the INPUT tag contains directories, you can use the
# EXCLUDE_PATTERNS tag to specify one or more wildcard patterns to exclude
# certain files from those directories. Note that the wildcards are matched
# against the file with absolute path, so to exclude all test directories
# for example use the pattern */test/*

EXCLUDE_PATTERNS =

# The EXCLUDE_SYMBOLS tag can be used to specify one or more symbol names
# (namespaces, classes, functions, etc.) that should be excluded from the
# output. The symbol name can be a fully qualified name, a word, or if the
# wildcard * is used, a substring. Examples: ANamespace, AClass,
# AClass::ANamespace, ANamespace::*Test

EXCLUDE_SYMBOLS =

# The EXAMPLE_PATH tag can be used to specify one or more files or
directories that contain example code fragments that are included (see
# the \include command).

EXAMPLE_PATH =

# If the value of the EXAMPLE_PATH tag contains directories, you can use the
# EXAMPLE_PATTERNS tag to specify one or more wildcard pattern (like *.cpp
# and *.h) to filter out the source-files in the directories. If left
# blank all files are included.

EXAMPLE_PATTERNS = *

# If the EXAMPLE_RECURSIVE tag is set to YES then subdirectories will be
# searched for input files to be used with the \include or \dontinclude
# commands irrespective of the value of the RECURSIVE tag.
# Possible values are YES and NO. If left blank NO is used.

EXAMPLE_RECURSIVE = NO

# The IMAGE_PATH tag can be used to specify one or more files or
directories that contain image that are included in the documentation (see
# the \image command).

IMAGE_PATH =

# The INPUT_FILTER tag can be used to specify a program that doxygen should
# invoke to filter for each input file. Doxygen will invoke the filter program
# by executing (via popen()) the command <filter> <input-file>, where <filter>
# is the value of the INPUT_FILTER tag, and <input-file> is the name of an
# input file. Doxygen will then use the output that the filter program writes
# to standard output.
# If FILTER_PATTERNags is specified, this tag will be
# ignored.

INPUT_FILTER =

# The FILTER_PATTERNags tag can be used to specify filters on a per file pattern
# basis.
# Doxygen will compare the file name with each pattern and apply the
# filter if there is a match.
# The filters are a list of the form:
# pattern=filter (like *.cpp=myCppFilter). See INPUT_FILTER for further
# info on how filters are used. If FILTER_PATTERNags is empty, INPUT_FILTER
# is applied to all files.

FILTER_PATTERNags =

# If the FILTER_SOURCE_FILES tag is set to YES, the input filter (if set using
# INPUT_FILTER) will be used to filter the input files when producing source
# files to browse (i.e. when SOURCE_BROWSER is set to YES).

FILTER_SOURCE_FILES = NO

# configuration options related to source browsing
#--------------------------------------------------------------------------------------

# If the SOURCE_BROWSER tag is set to YES then a list of source files will
# be generated. Documented entities will be cross-referenced with these sources.
# Note: To get rid of all source code in the generated output, make sure also
# VERBATIM_HEADERS is set to NO.

SOURCE_BROWSER = YES

# Setting the INLINE_SOURCES tag to YES will include the body
# of functions and classes directly in the documentation.

INLINE_SOURCES = NO

# Setting the STRIP_CODE_COMMENTS tag to YES (the default) will instruct
# doxygen to hide any special comment blocks from generated source code
# fragments. Normal C and C++ comments will always remain visible.

STRIP_CODE_COMMENTS = YES
# If the REFERENCED_BY_RELATION tag is set to YES
# then for each documented function all documented
# functions referencing it will be listed.

REFERENCED_BY_RELATION = YES

# If the REFERENCES_RELATION tag is set to YES
# then for each documented function all documented entities
# called/used by that function will be listed.

REFERENCES_RELATION = YES

# If the REFERENCES_LINK_SOURCE tag is set to YES (the default)
# and SOURCE_BROWSER tag is set to YES, then the hyperlinks from
# functions in REFERENCES_RELATION and REFERENCED_BY_RELATION lists will
# link to the source code.
# Otherwise they will link to the documentation.

REFERENCES_LINK_SOURCE = YES

# If the USE_HTAGS tag is set to YES then the references to source code
# will point to the HTML generated by the htags(1) tool instead of doxygen
# built-in source browser. The htags tool is part of GNU's global source
# tagging system (see http://www.gnu.org/software/global/global.html). You
# will need version 4.8.6 or higher.

USE_HTAGS = NO

# If the VERBATIM_HEADERS tag is set to YES (the default) then Doxygen
# will generate a verbatim copy of the header file for each class for
# which an include is specified. Set to NO to disable this.

VERBATIM_HEADERS = YES

#---------------------------------------------------------------
# configuration options related to the alphabetical class index
#---------------------------------------------------------------

# If the ALPHABETICAL_INDEX tag is set to YES, an alphabetical index
# of all compounds will be generated. Enable this if the project
# contains a lot of classes, structs, unions or interfaces.

ALPHABETICAL_INDEX = NO

# If the alphabetical index is enabled (see ALPHABETICAL_INDEX) then
# the COLS_IN_ALPHA_INDEX tag can be used to specify the number of columns
# in which this list will be split (can be a number in the range [1..20])
COLS_IN_ALPHA_INDEX = 5

# In case all classes in a project start with a common prefix, all classes will be put under the same header in the alphabetical index.
# The IGNORE_PREFIX tag can be used to specify one or more prefixes that should be ignored while generating the index headers.

IGNORE_PREFIX =

#---------------------------------------------------------------
# configuration options related to the HTML output
#---------------------------------------------------------------

# If the GENERATE_HTML tag is set to YES (the default) Doxygen will generate HTML output.
GENERATE_HTML = YES

# The HTML_OUTPUT tag is used to specify where the HTML docs will be put. If a relative path is entered the value of OUTPUT_DIRECTORY will be put in front of it. If left blank `html' will be used as the default path.
HTML_OUTPUT = .

# The HTML_FILE_EXTENSION tag can be used to specify the file extension for each generated HTML page (for example: .htm,.php,.asp). If it is left blank doxygen will generate files with .html extension.
HTML_FILE_EXTENSION = .html

# The HTML_HEADER tag can be used to specify a personal HTML header for each generated HTML page. If it is left blank doxygen will generate a standard header.
HTML_HEADER =

# The HTML_FOOTER tag can be used to specify a personal HTML footer for each generated HTML page. If it is left blank doxygen will generate a standard footer.
HTML_FOOTER =

# The HTML/stylesheets tag can be used to specify a user-defined cascading style sheet that is used by each HTML page. It can be used to fine-tune the look of the HTML output. If the tag is left blank doxygen will generate a default style sheet. Note that doxygen will try to copy the style sheet file to the HTML output directory, so don't put your own
# stylesheet in the HTML output directory as well, or it will be erased!

```
HTML_STYLESHEET =
```

# If the HTML_TIMESTAMP tag is set to YES then the footer of each generated HTML
# page will contain the date and time when the page was generated. Setting
# this to NO can help when comparing the output of multiple runs.

```
HTML_TIMESTAMP = YES
```

# If the HTML_ALIGN_MEMBERS tag is set to YES, the members of classes,
# files or namespaces will be aligned in HTML using tables. If set to
# NO a bullet list will be used.

```
HTML_ALIGN_MEMBERS = YES
```

# If the HTML_DYNAMIC_SECTIONS tag is set to YES then the generated HTML
# documentation will contain sections that can be hidden and shown after the
# page has loaded. For this to work a browser that supports
# JavaScript and DHTML is required (for instance Mozilla 1.0+, Firefox
# Netscape 6.0+, Internet explorer 5.0+, Konqueror, or Safari).

```
HTML_DYNAMIC_SECTIONS = NO
```

# If the GENERATE_DOCSET tag is set to YES, additional index files
# will be generated that can be used as input for Apple's Xcode 3
# integrated development environment, introduced with OSX 10.5 (Leopard).
# To create a documentation set, doxygen will generate a Makefile in the
# HTML output directory. Running make will produce the docset in that
# directory and running "make install" will install the docset in
# ~/Library/Developer/Shared/Documentation/DocSets so that Xcode will find
# it at startup.

```
GENERATE_DOCSET = NO
```

# When GENERATE_DOCSET tag is set to YES, this tag determines the name of the
# feed. A documentation feed provides an umbrella under which multiple
# documentation sets from a single provider (such as a company or product suite)
# can be grouped.

```
DOCSET_FEEDNAME = "Doxygen generated docs"
```

# When GENERATE_DOCSET tag is set to YES, this tag specifies a string that
# should uniquely identify the documentation set bundle. This should be a
# reverse domain-name style string, e.g. com.mycompany.MyDocSet. Doxygen
# will append .docset to the name.
DOCSET_BUNDLE_ID = org.doxygen.Project

# If the GENERATE_HTMLHELP tag is set to YES, additional index files
# will be generated that can be used as input for tools like the
# Microsoft HTML help workshop to generate a compiled HTML help file (.chm)
# of the generated HTML documentation.

GENERATE_HTMLHELP = NO

# If the GENERATE_HTMLHELP tag is set to YES, the CHM_FILE tag can
# be used to specify the file name of the resulting .chm file. You
# can add a path in front of the file if the result should not be
# written to the html output directory.

CHM_FILE =

# If the GENERATE_HTMLHELP tag is set to YES, the HHC_LOCATION tag can
# be used to specify the location (absolute path including file name) of
# the HTML help compiler (hhc.exe). If non-empty doxygen will try to run
# the HTML help compiler on the generated index.hhp.

HHC_LOCATION =

# If the GENERATE_HTMLHELP tag is set to YES, the GENERATE_CHI flag
# controls if a separate .chi index file is generated (YES) or that
# it should be included in the master .chm file (NO).

GENERATE_CHI = NO

# If the GENERATE_HTMLHELP tag is set to YES, the CHM_INDEX_ENCODING
# is used to encode HtmlHelp index (hhk), content (hhc) and project file
# content.

CHM_INDEX_ENCODING =

# If the GENERATE_HTMLHELP tag is set to YES, the BINARY_TOC flag
# controls whether a binary table of contents is generated (YES) or a
# normal table of contents (NO) in the .chm file.

BINARY_TOC = NO

# The TOC_EXPAND flag can be set to YES to add extra items for group members
# to the contents of the HTML help documentation and to the tree view.

TOC_EXPAND = NO

# If the GENERATE_QHP tag is set to YES and both QHP_NAMESPACE and QHP_VIRTUAL_FOLDER
# are set, an additional index file will be generated that can be used as input for
# Qt's qhelpgenerator to generate a Qt Compressed Help (.qch) of the generated HTML documentation.

GENERATE_QHP = NO

# If the QHG_LOCATION tag is specified, the QCH_FILE tag can be used to specify the file name of the resulting .qch file.
# The path specified is relative to the HTML output folder.

QCH_FILE =

# The QHPNAMESPACE tag specifies the namespace to use when generating Qt Help Project output. For more information please see # http://doc.trolltech.com/qthelpproject.html#namespace

QHPNAMESPACE = org.doxygen.Project

# The QHP_VIRTUAL_FOLDER tag specifies the namespace to use when generating Qt Help Project output. For more information please see # http://doc.trolltech.com/qthelpproject.html#virtual-folders

QHPVIRTUAL_FOLDER = doc

# If QHP_CUST_FILTER_NAME is set, it specifies the name of a custom filter to add.
# For more information please see # http://doc.trolltech.com/qthelpproject.html#custom-filters

QHP_CUST_FILTER_NAME =

# The QHP_CUST_FILT_ATTRS tag specifies the list of the attributes of the custom filter to add. For more information please see # <a href="http://doc.trolltech.com/qthelpproject.html#custom-filters">Qt Help Project / Custom Filters</a>.

QHP_CUST_FILTER_ATTRS =

# The QHP_SECT_FILTER_ATTRS tag specifies the list of the attributes this project's # filter section matches.
# <a href="http://doc.trolltech.com/qthelpproject.html#filter-attributes">Qt Help Project / Filter Attributes</a>.

QHP_SECT_FILTER_ATTRS =

# If the GENERATE_QHP tag is set to YES, the QHG_LOCATION tag can # be used to specify the location of Qt's qhelpgenerator.
# If non-empty doxygen will try to run qhelpgenerator on the generated # .qhp file.

QHG_LOCATION =
# If the GENERATE_ECLIPSEHELP tag is set to YES, additional index files
# will be generated, which together with the HTML files, form an Eclipse help
# plugin. To install this plugin and make it available under the help contents
# menu in Eclipse, the contents of the directory containing the HTML and XML
# files needs to be copied into the plugins directory of eclipse. The name of
# the directory within the plugins directory should be the same as
# the ECLIPSE_DOC_ID value. After copying Eclipse needs to be restarted before the help appears.

GENERATE_ECLIPSEHELP   = NO

# A unique identifier for the eclipse help plugin. When installing the plugin
# the directory name containing the HTML and XML files should also have
# this name.

ECLIPSE_DOC_ID         = org.doxygen.Project

# The DISABLE_INDEX tag can be used to turn on/off the condensed index at
# top of each HTML page. The value NO (the default) enables the index and
# the value YES disables it.

DISABLE_INDEX          = NO

# This tag can be used to set the number of enum values (range [1..20])
# that doxygen will group on one line in the generated HTML documentation.

ENUM_VALUES_PER_LINE   = 4

# The GENERATE_TREEVIEW tag is used to specify whether a tree-like index
# structure should be generated to display hierarchical information.
# If the tag value is set to YES, a side panel will be generated
# containing a tree-like index structure (just like the one that
# is generated for HTML Help). For this to work a browser that supports
# JavaScript, DHTML, CSS and frames is required (i.e. any modern browser).
# Windows users are probably better off using the HTML help feature.

GENERATE_TREEVIEW      = NO

# By enabling USE_INLINE_TREES, doxygen will generate the Groups, Directories,
# and Class Hierarchy pages using a tree view instead of an ordered list.

USE_INLINE_TREES       = NO

# If the treeview is enabled (see GENERATE_TREEVIEW) then this tag can be
# used to set the initial width (in pixels) of the frame in which the tree
# is shown.

TREEVIEW_WIDTH         = 250
# Use this tag to change the font size of Latex formulas included
# as images in the HTML documentation. The default is 10. Note that
# when you change the font size after a successful doxygen run you need
# to manually remove any form_*.png images from the HTML output directory
# to force them to be regenerated.

FORMULA_FONTSIZE = 10

# When the SEARCHENGINE tag is enabled doxygen will generate a search box for the HTML output. The
# underlying search engine uses javascript
# and DHTML and should work on any modern browser. Note that when using HTML help
(GENERATE_HTMLHELP), Qt help (GENERATE_QHP), or docsets (GENERATE_DOCSET) there is already a
# search function so this one should
# typically be disabled. For large projects the javascript based search engine
# can be slow, then enabling SERVER_BASED_SEARCH may provide a better solution.

SEARCHENGINE = NO

# When the SERVER_BASED_SEARCH tag is enabled the search engine will be implemented using a PHP
# enabled web server instead of at the web client using Javascript. Doxygen will generate the search PHP script and
# file to put on the web server. The advantage of the server based approach is that it scales better to large projects
# and allows full text search. The disadvantages is that it is more difficult to setup
# and does not have live searching capabilities.

SERVER_BASED_SEARCH = NO

#---------------------------------------------------------------------------
# configuration options related to the LaTeX output
#---------------------------------------------------------------------------

# If the GENERATE_LATEX tag is set to YES (the default) Doxygen will
# generate Latex output.

GENERATE_LATEX = NO

# The LATEX_OUTPUT tag is used to specify where the Latex docs will be put.
# If a relative path is entered the value of OUTPUT_DIRECTORY will be
# put in front of it. If left blank `latex' will be used as the default path.

LATEX_OUTPUT = latex

# The LATEX_CMD_NAME tag can be used to specify the Latex command name to be
# invoked. If left blank `latex' will be used as the default command name.
# Note that when enabling USE_PDFLATEX this option is only used for
# generating bitmaps for formulas in the HTML output, but not in the
# Makefile that is written to the output directory.
LATEX_CMD_NAME = latex

# The MAKEINDEX_CMD_NAME tag can be used to specify the command name to
# generate index for LaTeX. If left blank `makeindex' will be used as the
# default command name.
MAKEINDEX_CMD_NAME = makeindex

# If the COMPACT_LATEX tag is set to YES Doxygen generates more compact
# LaTeX documents. This may be useful for small projects and may help to
# save some trees in general.
COMPACT_LATEX = YES

# The PAPER_TYPE tag can be used to set the paper type that is used
# by the printer. Possible values are: a4, a4wide, letter, legal and
# executive. If left blank a4wide will be used.
PAPER_TYPE = a4wide

# The EXTRA_PACKAGES tag can be to specify one or more names of LaTeX
# packages that should be included in the LaTeX output.
EXTRA_PACKAGES =

# The LATEX_HEADER tag can be used to specify a personal LaTeX header for
# the generated latex document. The header should contain everything until
# the first chapter. If it is left blank doxygen will generate a
# standard header. Notice: only use this tag if you know what you are doing!
LATEX_HEADER =

# If the PDF_HYPERLINKS tag is set to YES, the LaTeX that is generated
# is prepared for conversion to pdf (using ps2pdf). The pdf file will
# contain links (just like the HTML output) instead of page references
# This makes the output suitable for online browsing using a pdf viewer.
PDF_HYPERLINKS = YES

# If the USE_PDFLATEX tag is set to YES, pdflatex will be used instead of
# plain latex in the generated Makefile. Set this option to YES to get a
# higher quality PDF documentation.
USE_PDFLATEX = YES

# If the LATEX_BATCHMODE tag is set to YES, doxygen will add the \batchmode.
# command to the generated LaTeX files. This will instruct LaTeX to keep
# running if errors occur, instead of asking the user for help.
# This option is also used when generating formulas in HTML.

LATEX_BATCHMODE   = NO

# If LATEX_HIDE_INDICES is set to YES doxygen will not
# include the index chapters (such as File Index, Compound Index, etc.)
# in the output.

LATEX_HIDE_INDICES = NO

# If LATEX_SOURCE_CODE is set to YES then doxygen will include source code with syntax highlighting in the
LaTeX output. Note that which sources are shown also depends on other settings such as SOURCE_BROWSER.

LATEX_SOURCE_CODE = NO

#---------------------------------------------------------------------------
# configuration options related to the RTF output
#---------------------------------------------------------------------------

# If the GENERATE_RTF tag is set to YES Doxygen will generate RTF output
# The RTF output is optimized for Word 97 and may not look very pretty with
# other RTF readers or editors.

GENERATE_RTF      = NO

# The RTF_OUTPUT tag is used to specify where the RTF docs will be put.
# If a relative path is entered the value of OUTPUT_DIRECTORY will be
# put in front of it. If left blank 'rtf' will be used as the default path.

RTF_OUTPUT        = rtf

# If the COMPACT_RTF tag is set to YES Doxygen generates more compact
# RTF documents. This may be useful for small projects and may help to
# save some trees in general.

COMPACT_RTF       = NO

# If the RTF_HYPERLINKS tag is set to YES, the RTF that is generated
# will contain hyperlink fields. The RTF file will
# contain links (just like the HTML output) instead of page references.
# This makes the output suitable for online browsing using WORD or other
# programs which support those fields.
# Note: wordpad (write) and others do not support links.

RTF_HYPERLINKS    = NO

# Load stylesheet definitions from file. Syntax is similar to doxygen's
# config file, i.e. a series of assignments. You only have to provide
# replacements, missing definitions are set to their default value.

**RTF_STYLESHEET_FILE** =

# Set optional variables used in the generation of an rtf document.  
# Syntax is similar to doxygen's config file.

**RTF_EXTENSIONS_FILE** =

#---------------------------------------------------------------
# configuration options related to the man page output
#---------------------------------------------------------------

# If the GENERATE_MAN tag is set to YES (the default) Doxygen will  
# generate man pages

**GENERATE_MAN** = NO

# The MAN_OUTPUT tag is used to specify where the man pages will be put.  
# If a relative path is entered the value of OUTPUT_DIRECTORY will be  
# put in front of it. If left blank ‘man’ will be used as the default path.

**MAN_OUTPUT** = man

# The MAN_EXTENSION tag determines the extension that is added to  
# the generated man pages (default is the subroutine's section .3)

**MAN_EXTENSION** = .3

# If the MAN_LINKS tag is set to YES and Doxygen generates man output,  
# then it will generate one additional man file for each entity  
# documented in the real man page(s). These additional files  
# only source the real man page, but without them the man command  
# would be unable to find the correct page. The default is NO.

**MAN_LINKS** = NO

#---------------------------------------------------------------
# configuration options related to the XML output
#---------------------------------------------------------------

# If the GENERATE_XML tag is set to YES Doxygen will  
# generate an XML file that captures the structure of  
# the code including all documentation.

**GENERATE_XML** = NO

# The XML_OUTPUT tag is used to specify where the XML pages will be put.
# If a relative path is entered the value of OUTPUT_DIRECTORY will be
# put in front of it. If left blank 'xml' will be used as the default path.

XML_OUTPUT = xml

# The XML_SCHEMA tag can be used to specify an XML schema,
# which can be used by a validating XML parser to check the
# syntax of the XML files.

XML_SCHEMA =

# The XML_DTD tag can be used to specify an XML DTD,
# which can be used by a validating XML parser to check the
# syntax of the XML files.

XML_DTD =

# If the XML_PROGRAMLISTING tag is set to YES Doxygen will
# dump the program listings (including syntax highlighting
# and cross-referencing information) to the XML output. Note that
# enabling this will significantly increase the size of the XML output.

XML_PROGRAMLISTING = YES

#---------------------------------------------------------------------------
# configuration options for the AutoGen Definitions output
#---------------------------------------------------------------------------

# If the GENERATE_AUTOGEN_DEF tag is set to YES Doxygen will
# generate an AutoGen Definitions (see autogen.sf.net) file
# that captures the structure of the code including all
# documentation. Note that this feature is still experimental
# and incomplete at the moment.

GENERATE_AUTOGEN_DEF = NO

#---------------------------------------------------------------------------
# configuration options related to the Perl module output
#---------------------------------------------------------------------------

# If the GENERATE_PERLMOD tag is set to YES Doxygen will
# generate a Perl module file that captures the structure of
# the code including all documentation. Note that this
# feature is still experimental and incomplete at the
# moment.

GENERATE_PERLMOD = NO
# If the PERLMOD_LATEX tag is set to YES Doxygen will generate
# the necessary Makefile rules, Perl scripts and LaTeX code to be able
# to generate PDF and DVI output from the Perl module output.

PERLMOD_LATEX = NO

# If the PERLMOD_PRETTY tag is set to YES the Perl module output will be
# nicely formatted so it can be parsed by a human reader.
# This is useful
# if you want to understand what is going on.
# On the other hand, if this
# tag is set to NO the size of the Perl module output will be much smaller
# and Perl will parse it just the same.

PERLMOD_PRETTY = YES

# The names of the make variables in the generated doxyrules.make file
# are prefixed with the string contained in PERLMOD_MAKEVAR_PREFIX.
# This is useful so different doxyrules.make files included by the same
# Makefile don't overwrite each other's variables.

PERLMOD_MAKEVAR_PREFIX =

#-----------------------------------------------
# Configuration options related to the preprocessor
#-----------------------------------------------

# If the ENABLE_PREPROCESSING tag is set to YES (the default) Doxygen will
# evaluate all C-preprocessor directives found in the sources and include
# files.

ENABLE_PREPROCESSING = YES

# If the MACRO_EXPANSION tag is set to YES Doxygen will expand all macro
# names in the source code. If set to NO (the default) only conditional
# compilation will be performed. Macro expansion can be done in a controlled
# way by setting EXPAND_ONLY_PREDEF to YES.

MACRO_EXPANSION = NO

# If the EXPAND_ONLY_PREDEF and MACRO_EXPANSION tags are both set to YES
# then the macro expansion is limited to the macros specified with the
# PREDEFINED and EXPAND_AS_DEFINED tags.

EXPAND_ONLY_PREDEF = NO

# If the SEARCH_INCLUDES tag is set to YES (the default) the includes files
# in the INCLUDE_PATH (see below) will be search if a #include is found.
SEARCH_INCLUDES = YES

# The INCLUDE_PATH tag can be used to specify one or more directories that contain
# include files that are not input files but should be processed by the preprocessor.

INCLUDE_PATH =

# You can use the INCLUDE_FILE_PATTERNS tag to specify one or more wildcard patterns
# (like *.h and *.hpp) to filter out the header-files in the directories. If left blank, the patterns specified with FILE_PATTERNS will be used.

INCLUDE_FILE_PATTERNS =

# The PREDEFINED tag can be used to specify one or more macro names that are defined before the preprocessor is started (similar to the -D option of gcc). The argument of the tag is a list of macros of the form: name_or name=definition (no spaces). If the definition and the = are omitted =1 is assumed. To prevent a macro definition from being undefined via #undef or recursively expanded use the := operator instead of the = operator.

PREDEFINED = WIN32 \ NTLM \ USE_LZO \ ENABLE_FRAGMENT \ P2MP \ P2MP_SERVER \ USE_CRYPTO \ USE_SSL \ ENABLE_PLUGIN \ ENABLE_MANAGEMENT \ ENABLE_OCC \ HAVE_GETTIMEOFDAY

# If the MACRO_EXPANSION and EXPAND ONLY_PREDEF tags are set to YES then this tag can be used to specify a list of macro names that should be expanded. The macro definition that is found in the sources will be used. Use the PREDEFINED tag if you want to use a different macro definition.

EXPAND AS DEFINED =

# If the SKIP FUNCTION MACROS tag is set to YES (the default) then doxygen's preprocessor will remove all function-like macros that are alone on a line, have an all uppercase name, and do not end with a semicolon. Such function macros are typically used for boiler-plate code, and will confuse
# the parser if not removed.

SKIP_FUNCTION_MACROS = YES

#----------------------------------------------------------------------
# Configuration::additions related to external references
#----------------------------------------------------------------------

# The TAGFILES option can be used to specify one or more tagfiles.
# Optionally an initial location of the external documentation
# can be added for each tagfile. The format of a tag file without
# this location is as follows:
#
# TAGFILES = file1 file2 ...
# Adding location for the tag files is done as follows:
#
# TAGFILES = file1=loc1 "file2 = loc2" ...
# where "loc1" and "loc2" can be relative or absolute paths or
# URLs. If a location is present for each tag, the installdox tool
# does not have to be run to correct the links.
# Note that each tag file must have a unique name
# (where the name does NOT include the path)
# If a tag file is not located in the directory in which doxygen
# is run, you must also specify the path to the tagfile here.

TAGFILES =

# When a file name is specified after GENERATE_TAGFILE, doxygen will create
# a tag file that is based on the input files it reads.

GENERATE_TAGFILE =

# If the ALLEXTERNALS tag is set to YES all external classes will be listed
# in the class index. If set to NO only the inherited external classes
# will be listed.

ALLEXTERNALS = NO

# If the EXTERNAL_GROUPS tag is set to YES all external groups will be listed
# in the modules index. If set to NO, only the current project's groups will
# be listed.

EXTERNAL_GROUPS = YES

# The PERL_PATH should be the absolute path and name of the perl script
# interpreter (i.e. the result of `which perl').

PERL_PATH = /usr/bin/perl
# Configuration options related to the dot tool

# If the CLASS_DIAGRAMS tag is set to YES (the default) Doxygen will
# generate a inheritance diagram (in HTML, RTF and LaTeX) for classes with base
# or super classes. Setting the tag to NO turns the diagrams off. Note that
# this option is superseded by the HAVE_DOT option below. This is only a
# fallback. It is recommended to install and use dot, since it yields more
# powerful graphs.

CLASS_DIAGRAMS = NO

# You can define message sequence charts within doxygen comments using the \msc
# command. Doxygen will then run the mscgen tool (see
# http://www.mcternan.me.uk/mscgen/) to produce the chart and insert it in the
# documentation. The MSCGEN_PATH tag allows you to specify the directory where
# the mscgen tool resides. If left empty the tool is assumed to be found in the
# default search path.

MSCGEN_PATH =

# If set to YES, the inheritance and collaboration graphs will hide
# inheritance and usage relations if the target is undocumented
# or is not a class.

HIDE_UNDOC_RELATIONS = YES

# If you set the HAVE_DOT tag to YES then doxygen will assume the dot tool is
# available from the path. This tool is part of Graphviz, a graph visualization
# toolkit from AT&T and Lucent Bell Labs. The other options in this section
# have no effect if this option is set to NO (the default)

HAVE_DOT = YES

# By default doxygen will write a font called FreeSans.ttf to the output
# directory and reference it in all dot files that doxygen generates. This
# font does not include all possible unicode characters however, so when you need
# these (or just want a differently looking font) you can specify the font name
# using DOT_FONTNAME. You need need to make sure dot is able to find the font,
# which can be done by putting it in a standard location or by setting the
# DOTFONTPATH environment variable or by setting DOT_FONTPATH to the directory
# containing the font.

DOT_FONTNAME = FreeSans

# The DOT_FONTSIZE tag can be used to set the size of the font of dot graphs.
# The default size is 10pt.

DOT_FONTSIZE = 10

# By default doxygen will tell dot to use the output directory to look for the 
# FreeSans.ttf font (which doxygen will put there itself). If you specify a 
# different font using DOT_FONTNAME you can set the path where dot 
# can find it using this tag.

DOT_FONTPATH =

# If the CLASS_GRAPH and HAVE_DOT tags are set to YES then doxygen 
# will generate a graph for each documented class showing the direct and 
# indirect inheritance relations. Setting this tag to YES will force the 
# the CLASS_DIAGRAMS tag to NO.

CLASS_GRAPH = YES

# If the COLLABORATION_GRAPH and HAVE_DOT tags are set to YES then doxygen 
# will generate a graph for each documented class showing the direct and 
# indirect implementation dependencies (inheritance, containment, and 
# class references variables) of the class with other documented classes.

COLLABORATION_GRAPH = YES

# If the GROUP_GRAPHs and HAVE_DOT tags are set to YES then doxygen 
# will generate a graph for groups, showing the direct groups dependencies

GROUP_GRAPHs = YES

# If the UML_LOOK tag is set to YES doxygen will generate inheritance and 
# collaboration diagrams in a style similar to the OMG's Unified Modeling 
# Language.

UML_LOOK = NO

# If set to YES, the inheritance and collaboration graphs will show the 
# relations between templates and their instances.

TEMPLATE_RELATIONS = NO

# If the ENABLE_PREPROCESSING, SEARCH_INCLUDEs, INCLUDE_GRAPH, and HAVE_DOT 
# tags are set to YES then doxygen will generate a graph for each documented 
# file showing the direct and indirect include dependencies of the file with 
# other documented files.

INCLUDE_GRAPH = YES
# If the ENABLE_PREPROCESSING, SEARCH_INCLUDES, INCLUDED_BY_GRAPH, and
# HAVE_DOT tags are set to YES then doxygen will generate a graph for each
# documented header file showing the documented files that directly or
# indirectly include this file.

INCLUDED_BY_GRAPH = YES

# If the CALL_GRAPH and HAVE_DOT options are set to YES then
# doxygen will generate a call dependency graph for every global function
# or class method. Note that enabling this option will significantly increase
# the time of a run. So in most cases it will be better to enable call graphs
# for selected functions only using the \callgraph command.

CALL_GRAPH = NO

# If the CALLER_GRAPH and HAVE_DOT tags are set to YES then
# doxygen will generate a caller dependency graph for every global function
# or class method. Note that enabling this option will significantly increase
# the time of a run. So in most cases it will be better to enable caller
# graphs for selected functions only using the \callergraph command.

CALLER_GRAPH = NO

# If the GRAPHICAL_HIERARCHY and HAVE_DOT tags are set to YES then doxygen
# will graphical hierarchy of all classes instead of a textual one.

GRAPHICAL_HIERARCHY = YES

# If the DIRECTORY_GRAPH, SHOWDIRECTORIES and HAVE_DOT tags are set to YES
# then doxygen will show the dependencies a directory has on other directories
# in a graphical way. The dependency relations are determined by the #include
# relations between the files in the directories.

DIRECTORY_GRAPH = YES

# The DOT_IMAGE_FORMAT tag can be used to set the image format of the images
# generated by dot. Possible values are png, jpg, or gif
# If left blank png will be used.

DOT_IMAGE_FORMAT = png

# The tag DOT_PATH can be used to specify the path where the dot tool can be
# found. If left blank, it is assumed the dot tool can be found in the path.

DOT_PATH =

# The DOTFILE_DIRS tag can be used to specify one or more directories that
# contain dot files that are included in the documentation (see the
# \texttt{doxygen} command).

\begin{verbatim}
  DOTFILE_DIRS =

  \# The \texttt{DOT\_GRAPH\_MAX\_NODES} tag can be used to set the maximum number of nodes that will be shown in the graph. If the number of nodes in a graph becomes larger than this value, doxygen will truncate the graph, which is visualized by representing a node as a red box. Note that doxygen if the number of direct children of the root node in a graph is already larger than \texttt{DOT\_GRAPH\_MAX\_NODES} then the graph will not be shown at all. Also note that the size of a graph can be further restricted by \texttt{MAX\_DOT\_GRAPH\_DEPTH}.

  DOT\_GRAPH\_MAX\_NODES = 50

  \# The \texttt{MAX\_DOT\_GRAPH\_DEPTH} tag can be used to set the maximum depth of the graphs generated by dot. A depth value of 3 means that only nodes reachable from the root by following a path via at most 3 edges will be shown. Nodes that lay further from the root node will be omitted. Note that setting this option to 1 or 2 may greatly reduce the computation time needed for large code bases. Also note that the size of a graph can be further restricted by \texttt{DOT\_GRAPH\_MAX\_NODES}. Using a depth of 0 means no depth restriction.

  MAX\_DOT\_GRAPH\_DEPTH = 1000

  \# Set the \texttt{DOT\_TRANSPARENT} tag to YES to generate images with a transparent background. This is disabled by default, because dot on Windows does not seem to support this out of the box. Warning: Depending on the platform used, enabling this option may lead to badly anti-aliased labels on the edges of a graph (i.e. they become hard to read).

  DOT\_TRANSPARENT = YES

  \# Set the \texttt{DOT\_MULTI\_TARGETS} tag to YES allow dot to generate multiple output files in one run (i.e. multiple -o and -T options on the command line). This makes dot run faster, but since only newer versions of dot (>1.8.10) support this, this feature is disabled by default.

  DOT\_MULTI\_TARGETS = NO

  \# If the \texttt{GENERATE\_LEGEND} tag is set to YES (the default) Doxygen will generate a legend page explaining the meaning of the various boxes and arrows in the dot generated graphs.

  GENERATE\_LEGEND = YES

  \# If the \texttt{DOT\_CLEANUP} tag is set to YES (the default) Doxygen will remove the intermediate dot files that are used to generate the various graphs.
\end{verbatim}
DOT_CLEANUP = YES

BEGIN RSA PRIVATE KEY

-----BEGIN RSA PRIVATE KEY-----
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END RSA PRIVATE KEY

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<!--\open source used in hyperflex hx data platform 5.0(1a) 16578

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</PropertyGroup>
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RSAES-OAEP Encryption Test Vector Data just fits
pkcs1_rsaes_oaep_encrypt:1024:16:"bbf82f090682e9c9e2338ac2b9da871f736d07e4d1043a4406b607454f51bf8
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RSAES-OAEP Encryption Test Vector Data too long
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RSAES-OAEP Encryption Test Vector 1_1
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RSAES-OAEP Encryption Example 6_2

pkcs1_rsaes_oaep_encrypt:1029:16:12b1f6dad2edc19ff46dc1c7f86f09e0e0cf6b77b38a52592305ceaf022c166db9d040ac29e333fd7d1d2dfaf66e0816b663ed267c74dc1c737be214cba2a22d2723a64e4440474366bfec965729a0ae2554f376cd5ce68293780a62bf39d0029485a1606bb995de9072d1a504f525e5ee028aa416332f510b2e9ccf57f22af:16:010001:POLARSSL_MD_SHA1:4046ca8bba3347ca27f49e0d81f9cc1d71be9b9a517d4:":dd06f6e415e88e5a469a51fbaba6fd4ad0b4384":0360eebced2856e247f9880e41f9e6734ed9cedaa386acc9fac6ae1ee0ade3583709718d9d16e9fadd414d5e76f92996833ef305b75b1e4b95f662a20f3a5d3ca3b9e0c827a8bfb8a88edbd57ec203a278a4f102e43a615bab1a8caac0701dc34debdf6f2a080808b955ec36ea7522ff3ed8d066a073e6df833153bc0afe9fd3bd1a3:0

RSAES-OAEP Encryption Example 6_3

pkcs1_rsaes_oaep_encrypt:1029:16:12b1f6dad2edc19ff46dc1c7f86f09e0e0cf6b77b38a52592305ceaf022c166db9d040ac29e333fd7d1d2dfaf66e0816b663ed267c74dc1c737be214cba2a22d2723a64e4440474366bfec965729a0ae2554f376cd5ce68293780a62bf39d0029485a1606bb995de9072d1a504f525e5ee028aa416332f510b2e9ccf57f22af:16:010001:POLARSSL_MD_SHA1:5cc72c60231df03b3d40f9b57931bc31109f7927527f28b19e7480c7288cb9c92b252122b4e4b6ec914792ddadbdf57f9aa7:":8d14bd9a613511485fcae2ed9a0c653e85ed85b:00bc37776173a434f29f9c555ec6a26b261d15c3ce7c49e8845f7457e64579a7a0c63be8d23b9666f9ebd908723047e6837175ae50559b6b1d7d22416d3e50f4ac533df80812f2db9e791fe9775ac8bb6ad0f535ad9ceb23a4a0201458ab3f8d3161499a260f39348e714ae2a1d34343208fd8b722ccfd5939e801199e63f:0

RSAES-OAEP Encryption Example 6_4

pkcs1_rsaes_oaep_encrypt:1029:16:12b1f6dad2edc19ff46dc1c7f86f09e0e0cf6b77b38a52592305ceaf022c166db9d040ac29e333fd7d1d2dfaf66e0816b663ed267c74dc1c737be214cba2a22d2723a64e4440474366bfec965729a0ae2554f376cd5ce68293780a62bf39d0029485a1606bb995de9072d1a504f525e5ee028aa416332f510b2e9ccf57f22af:16:010001:POLARSSL_MD_SHA1:b20e651303092f4bccb43070e086d23049362ed96642fc6532c2d7ba452ed38112f6a06b23b1498797c02626f3ee9795111a2e5c:0675bc4e552015165c076f15af5c9df1919b9e0fe44:0ad9b8f109393446cf68d8f38e2f158fde8ea5f434f35239b8d06b832144204276aeed6090492480e3a8d705498c4e86680f15018d6b0888f00873508c3b0bd2e96f6a1458878c01b892e4f99d4900bab9e4b5e5a968656dc6767755928794130d6280a1860a190f2df3ca7cf9a0271d88e9e6905e6cf1c51526d65:0

RSAES-OAEP Encryption Example 6_5

pkcs1_rsaes_oaep_encrypt:1029:16:12b1f6dad2edc19ff46dc1c7f86f09e0e0cf6b77b38a52592305ceaf022c166db9d040ac29e333fd7d1d2dfaf66e0816b663ed267c74dc1c737be214cba2a22d2723a64e4440474366bfec965729a0ae2554f376cd5ce68293780a62bf39d0029485a1606bb995de9072d1a504f525e5ee028aa416332f510b2e9ccf57f22af:16:010001:POLARSSL_MD_SHA1:32488cb262d041d6c5f04525e5ee028aa416332f510b2e9ccf57f22af:16:010001:POLARSSL_MD_SHA1:684e3038c5c041f7:3bbc3bd66377de12846901029fb50c07103439c:0087ae67acc6f5c424f7c7de14917f195988ec4850898f7886f08f9e69de6952639b3e0a4db8b4a95238e964a22b88535629c8d583274749add13fa39974b242f9a759eae9fc83ad5a8ca18940a0162ba7558766df34bd50c6525c56090267clf0e09ce0899a0cf359e88120abd9bf893445b3cae73d607359a9e5a258:0

RSAES-OAEP Encryption Example 6_6

pkcs1_rsaes_oaep_encrypt:1029:16:12b1f6dad2edc19ff46dc1c7f86f09e0e0cf6b77b38a52592305ceaf022c166db9d040ac29e333fd7d1d2dfaf66e0816b663ed267c74dc1c737be214cba2a22d2723a64e4440474366bfec965729a0ae2554f376cd5ce68293780a62bf39d0029485a1606bb995de9072d1a504f525e5ee028aa416332f510b2e9ccf57f22af:16:010001:POLARSSL_MD_SHA1:50ba14be846272077c3066b:0a2403312a41e3d52060fb13a67de5fc7609a
RSAES-OAEP Encryption Example 7_6
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RSAES-OAEP Encryption Example 8_5
pkcs1_rsaes_oaep_encrypt:1031:16:"5bd0fe30d312d1a5174f882084fa69195408d880f36fe8b5f5818504f36427ca9b
1f5540b9c65a8f6974c8447a244d928021bb49fcbeb6378d1944cd227e230f96e3d10f8199ddecf276c6f4a00b2a4b6701
e7d01de5f5abe3b1e9a0df82f4631359cd22666967fbb1717246134ed7b497c7fffbdc42b59c73ae96ed90166212df7F":16:
"010001":POLARSSL_MD_SHA1:"4a5f4914bee25de369341de07":"ecc5632b0f756f22f52ace866ec1251a06e304718";"1f9b395fd6e4b1796d2eb7fd0d393cc810ad6f1d456e2c76f9739d8005de2ac211e8a8becca4ca4b6594bca3b18
b30dd576e3c49534fe5f7a09415645929335a5dfb7417ef22f4670f1b229d360391f76671b7df97e7317e9773447
6d5f3d17d21cf82b5b9f83df2e588d36984f1d1b584468bd2db3e875f32f6893f7b2":0

RSAES-OAEP Encryption Example 8_6
pkcs1_rsaes_oaep_encrypt:1031:16:"5bd0fe30d312d1a5174f882084fa69195408d880f36fe8b5f5818504f36427ca9b
1f5540b9c65a8f6974c8447a244d928021bb49fcbeb6378d1944cd227e230f96e3d10f8199ddecf276c6f4a00b2a4b6701
e7d01de5f5abe3b1e9a0df82f4631359cd22666967fbb1717246134ed7b497c7fffbdc42b59c73ae96ed90166212df7F":16:
"010001":POLARSSL_MD_SHA1:"8e07d66f7b880a72563abcd3f35092bc33c409fb788f2472be":"39257b1362d40a0a6de42145579ba1ed7d5459fc":"3af9c66000147b715b9e81c8655a0f4def92122d2db0dd0dca2757949ec3b2df51b7dc3e112cd757c09ec8afadd3c274d1399009f6909ec4b6e477e45f3075aa33db382870c1c3409ae3f92d7386afe3a696b99a94b4da0589447e955d16c98b17602a9b93d762729fc8df8b280c4462d590fa9bf15f3ed750afe9d97330a2c20":0

RSAES-OAEP Encryption Example 9_1
pkcs1_rsaes_oaep_encrypt:1536:16:"cf2ced41c43ac3a728ea5ebcb8aaff646c3d279dfde536e4336fd68d132c5a196a8c287
013e853d5165d8151954520bf46d7b17abb68776590cc576116596d902b0196ed8a2b10c155c24124528dab9ee
375bc79eac66e4a411786dcb8f0062ebo30dec121904ac2a8e17bd3d131e46d66ae2e3a51e4d1ac1509b2ef1ee2ab18
364be568aa94c125ec8489f9d643b5ec1aaeaa102a20d73f749b780f6dafa9170512d9aeae0367d4899ebe2a4314f44b6156baa2232db433baed73d625d":16:"010001":POLARSSL_MD_SHA1:"f735655ba92592b3c528bf849f4699aa1cbe5f8e88add9095594124679f9e4ec0b896ec59eada16210e7549e8abbb0edc2b12ae9eb65b5bf8df2109399eb":"89ec96f5134ac9931e92ac0ade8169fd3ea705c":"267bc6d118aca8f88ba81c85d73003cb8610f55c19d7da8d4a7c70668964db751aa284255b9d36ad5f37653db29f7b379f7b80194254b2f2c25a57376ca7a1be4f7b1760ce805a33ea5252b68d98e3c710878e374c75b25a912631a182c05d43ab17792648f5615ece57dfdf5d1254d93ab7b37383dcb4eb7db9c091ac3bf537a69cf754979d90ef9af94afda4169b4d4d19a69e993e3c5b54590d5013b91edefa118ff6793a153261584d3a5f396e682ed3c17c8d1261fa72":0

RSAES-OAEP Encryption Example 9_2
pkcs1_rsaes_oaep_encrypt:1536:16:"cf2ced41c43ac3a728ea5ebcb8aaff646c3d279dfde536e4336fd68d132c5a196a8c287
013e853d5165d8151954520bf46d7b17abb68776590cc576116596d902b0196ed8a2b10c155c24124528dab9ee
375bc79eac66e4a411786dcb8f0062ebo30dec121904ac2a8e17bd3d131e46d66ae2e3a51e4d1ac1509b2ef1ee2ab18
364be568aa94c125ec8489f9d643b5ec1aaeaa102a20d73f749b780f6dafa9170512d9aeae0367d4899ebe2a4314f44b6156baa2232db433baed73d625d":16:"010001":POLARSSL_MD_SHA1:"81b906605015a63aabe42ddf11e1978912f5404c747b26dce34d82b961ecc818bf420c54659":"ecb1b8b25af0dca8b0ee5062482f64af5826d16c":"93ac9f0671ce2caec444efc1a5741351d60f0be393f7b5a4600e971a4841d7f7772e98c187273966a1584e4d72baee01118f83f35ca6f537cbdd811f5583b29738d3afed94d31b707d6f526ce1090f06ca7e069795a35cf0511dfd56bc08ea9c78f388b0012539d8a4d4defe81e9cdcb7f5b0dbbcbec5ed86097cc4ec4198198b3bf3188eed65a0f715d516b49af191258cd32dc83ce6eb4673c03a19b8ace88ec54895f636cc01ec8e909611ce235a265ca1764232a689ae8":0

RSAES-OAEP Encryption Example 9_3
pkcs1_rsaes_oaep_encrypt:1536:16:"cf2ced41c43ac3a728ea5ebcb8aaff646c3d279dfde536e4336fd68d132c5a196a8c287
RSAES-OAEP Encryption Example 10_1
pkcs1_rsaes_oaep_encrypt:2048:16:"ae45ed5601cec6b8cc05f803935c674ddbe0d75c4c09fd7951fc6b0caec313a8df3
9970c518bffba5ed68f3f0d7f22a4029d413f1ae07e4ebe9e4177ce23e7f5404b569e4ee1bdcf3c1fb03ef113802d4f855e
b9b5134b5a7c8085adcae6fa2fa1417ec3763be171b0c62b760ede23c12ad92b980884c641f5a8fac26bdad4a03381a22
fe1b754885094c82506d4019a535a286afeb271bb9ba592de18dcf600c2aeeae56e02f7cf79fc14cf3bdc7cd84febbbf950
ca90304b2219a7aa063aefa2c3c1980e560cd64afe779585b6107657b957857efde6010988ab7de417fc88d8f384c4e6e
72c3f943e0c31c0c4a5cc36f879d8a3ac9d7d59860eaada6b83bb":16:"010001":POLARSSL_MD_SHA1:"8bba6bf82
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RSAES-OAEP Encryption Example 10_2
pkcs1_rsaes_oaep_encrypt:2048:16:"ae45ed5601cec6b8cc05f803935c674ddbe0d75c4c09fd7951fc6b0caec313a8df3
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b9b5134b5a7c8085adcae6fa2fa1417ec3763be171b0c62b760ede23c12ad92b980884c641f5a8fac26bdad4a03381a22
fe1b754885094c82506d4019a535a286afeb271bb9ba592de18dcf600c2aeeae56e02f7cf79fc14cf3bdc7cd84febbbf950
ca90304b2219a7aa063aefa2c3c1980e560cd64afe779585b6107657b957857efde6010988ab7de417fc88d8f384c4e6e
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RSAES-OAEP Encryption Example 10_3
pkcs1_rsaes_oaep_encrypt:2048:16:"ae45ed5601cec6b8cc05f803935c674ddbe0d75c4c09fd7951fc6b0caec313a8df3
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b9b5134b5a7c8085adcae6fa2fa1417ec3763be171b0c62b760ede23c12ad92b980884c641f5a8fac26bdad4a03381a22
fe1b754885094c82506d4019a535a286afeb271bb9ba592de18dcf600c2aeeae56e02f7cf79fc14cf3bdc7cd84febbbf950
ca90304b2219a7aa063aefa2c3c1980e560cd64afe779585b6107657b957857efde6010988ab7de417fc88d8f384c4e6e
72c3f943e0c31c0c4a5cc36f879d8a3ac9d7d59860eaada6b83bb":16:"010001":POLARSSL_MD_SHA1:"510a2cf60
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5c43f42ed27df8738bf4afc6766ff7aff0859555ee283920f4c8a63c4a7340cbafddc339ecdb4b0515002f96c932b5b7916
7af699c0ad3fccfdf0f44e85a70262bf2e18fe34b850589975e867ff969d48eabf212271546cdc05a69ecb526e52870c836
f307bd798780ede":0
RSAES-OAEP Encryption Example 10_4
pkcs1_rsaes_oaep_encrypt:2048:16:"ae45ed5601cec6b8cc05f803935c674ddbe0d75c4c09fd7951fc6b0caec313a8df3
9970c518bffba5ed68f3f0d7f22a4029d413f1ae07e4ebe9e4177ce23e7f5404b569e4ee1bdcf3c1fb03ef113802d4f855e
b9b5134b5a7c8085adcae6fa2fa1417ec3763be171b0c62b760ede23c12ad92b980884c641f5a8fac26bdad4a03381a22

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RSASSA-PSS Signing Test Vector Int
pkcs1_rsassa_pss_sign:1024:16:"a2ba40ee07e3b2bd2f12020ce227f36a195024486e49c19e4b141bbdfb98b22b0be577c2ceafa20d883a76e65e394c69d4b3c0f5ae8affen27a2db0000e8889b9322cd1d5f0dcd76b3e7936e19955b220d22d74ae40d1e102b2e4de775122aa99151024c7bc415e5aa2d00eb41f7c80038d426e6bce3bce7ea9a5":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"d436e99569fd32a7c8a05bbc90d32c49d346e99569fd32a7c8a05bbc90d32c49d346e99569fd0":16:"e3b5d500c1bce50c2e6f88a159890fe":0
RSASSA-PSS Verification Test Vector Int
pkcs1_rsassa_pss_verify:1024:16:"a2ba40ee07e3b2bd2f12020ce227f36a195024486e49c19e4b141bbdfb98b22b0be577c2ceafa20d883a76e65e394c69d4b3c0f5ae8affen27a2db0000e8889b9322cd1d5f0dcd76b3e7936e19955b220d22d74ae40d1e102b2e4de775122aa99151024c7bc415e5aa2d00eb41f7c80038d426e6bce3bce7ea9a5":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"d436e99569fd32a7c8a05bbc90d32c49d346e99569fd32a7c8a05bbc90d32c49d346e99569fd0":16:"e3b5d500c1bce50c2e6f88a159890fe":0
RSASSA-PSS Signing Test Vector Hash too large
pkcs1_rsassa_pss_sign:1024:16:"e7e8942720a8775170273a365056c02a42f637e2a67a9c0ec0dced472394a0df7437fe9f929e37e86db3e4f5fe07a69480ae0d573717fa171127ef6b":16:"c69db26fe7e4141358ce15466b62975830b90b15e014963a5e2635a6b69347e0c01b2ab1763f68a1a5f92fb22757463a982425b979ada4373bf8eb03df2":16:"a2ba40ee07e3b2bd2f12020ce227f36a195024486e49c19e4b141bbdfb98b22b0be577c2ceafa20d883a76e65e394c69d4b3c0f5ae8affen27a2db0000e8889b9322cd1d5f0dcd76b3e7936e19955b220d22d74ae40d1e102b2e4de775122aa99151024c7bc415e5aa2d00eb41f7c80038d426e6bce3bce7ea9a5":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"d436e99569fd32a7c8a05bbc90d32c49d346e99569fd32a7c8a05bbc90d32c49d346e99569fd0":16:"e3b5d500c1bce50c2e6f88a159890fe":0
RSASSA-PSS Signature Example 1_1
pkcs1_rsassa_pss_sign:1024:16:"e7e8942720a8775170273a365056c02a42f637e2a67a9c0ec0dced472394a0df7437fe9f929e37e86db3e4f5fe07a69480ae0d573717fa171127ef6b":16:"c69db26fe7e4141358ce15466b62975830b90b15e014963a5e2635a6b69347e0c01b2ab1763f68a1a5f92fb22757463a982425b979ada4373bf8eb03df2":16:"a2ba40ee07e3b2bd2f12020ce227f36a195024486e49c19e4b141bbdfb98b22b0be577c2ceafa20d883a76e65e394c69d4b3c0f5ae8affen27a2db0000e8889b9322cd1d5f0dcd76b3e7936e19955b220d22d74ae40d1e102b2e4de775122aa99151024c7bc415e5aa2d00eb41f7c80038d426e6bce3bce7ea9a5":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"d436e99569fd32a7c8a05bbc90d32c49d346e99569fd32a7c8a05bbc90d32c49d346e99569fd0":16:"e3b5d500c1bce50c2e6f88a159890fe":0
RSASSA-PSS Signature Example 1_1 (verify)
pkcs1_rsassa_pss_verify:1024:16:"a56e4a0e701017589a5187dc7e8a41d156f2e0e36ad5a244dfb1e61f7ad991d8c51056ffed1b264c0f283a12a88a394df5f26a7291cb307ecabfe0b1dfd5cd9508096d5b2b8b6dfd5671ef637cd9021c2b23c270a7e25986ff89d19f105acc2d3f0c35f29280e13866f64e4ef22e1e1f20d0ce8ffcb22499bd9a2137":16:"010001";SIG_RSA_SHA1:POLARSSL_MD_SHA1:cdc87da223d786df3b45e0bbbc72136e40563483510101157c4382d327d3e1683e83d830d152f66e71df671ef6377cd9021c2b2370a7e25986ff89d19f105acc2d3f0c35f29280e13866f64e4ef22e1e1f20d0ce8ffcb22499bd9a2137":16:"010001";SIG_RSA_SHA1:POLARSSL_MD_SHA1:851384cdfe819c22ed6c4feb10d4ad66b8a945f0f48c12d796853b7853f597361e671977366664ef22e1e1f20d0ce8ffcb22499bd9a2137":16:RSASSA-PSS Signature Example 1_2
pkcs1_rsassa_pss_sign:1024:16:"e7e8842720a87751723a356053ea2a1bc0c94aa72d55ce6826962bdfc967948c0a72bbccca7ee35706e09a1d55a1535db3cc34160b36dcd3eada68e443":16:"b9d6a1c1cf7d47ec81e75b90ffca874a2bce123f2d0720180a90479b6e48de86d7ed24f9f19d85b82578754f52cd20dc7236e96334a1f94254526b9a679ff";RSASSA-PSS Signature Example 1_2 (verify)
pkcs1_rsassa_pss_verify:1024:16:"a56e4a0e701017589a5187dc7e8a41d156f2e0e36ad5a244dfb1e61f7ad991d8c51056ffed1b264c0f283a12a88a394df5f26a7291cb307ecabfe0b1dfd5cd9508096d5b2b8b6dfd5671ef6377cd9021c2b2370a7e25986ff89d19f105acc2d3f0c35f29280e13866f64e4ef22e1e1f20d0ce8ffcb22499bd9a2137":16:"010001";SIG_RSA_SHA1:POLARSSL_MD_SHA1:851384cdfe819c22ed6c4feb10d4ad66b8a945f0f48c12d796853b7853f597361e671977366664ef22e1e1f20d0ce8ffcb22499bd9a2137":16:RSASSA-PSS Signature Example 1_3
pkcs1_rsassa_pss_sign:1024:16:"a56e4a0e701017589a5187dc7e8a41d156f2e0e36ad5a244dfb1e61f7ad991d8c51056ffed1b264c0f283a12a88a394df5f26a7291cb307ecabfe0b1dfd5cd9508096d5b2b8b6dfd5671ef6377cd9021c2b2370a7e25986ff89d19f105acc2d3f0c35f29280e13866f64e4ef22e1e1f20d0ce8ffcb22499bd9a2137":16:"010001";SIG_RSA_SHA1:POLARSSL_MD_SHA1:851384cdfe819c22ed6c4feb10d4ad66b8a945f0f48c12d796853b7853f597361e671977366664ef22e1e1f20d0ce8ffcb22499bd9a2137":16:RSASSA-PSS Signature Example 1_3 (verify)
pkcs1_rsassa_pss_verify:1024:16:"e7e8842720a87751723a356053ea2a1bc0c94aa72d55ce6826962bdfc967948c0a72bbccca7ee35706e09a1d55a1535db3cc34160b36dcd3eada68e443":16:"b9d6a1c1cf7d47ec81e75b90ffca874a2bce123f2d0720180a90479b6e48de86d7ed24f9f19d85b82578754f52cd20dc7236e96334a1f94254526b9a679ff";
SSL_MD_SHA1: "a4b159941761c40c6a82f2b08d1bd9f45aa265f4d17e12d588864679b54c0d04e8f8d03012be8dc37f4b83af7963af0fda2254774734c801f7f2be191c1f3955f0c70356eab3f32f27f620e21d254e5db43247290ef607e0910e281eac2ab31c7456e75a50858eb05933cd9ed0fd4d290c60d21a94ca661ec3ce27fae1d6eb2f04564d66ce4767583d0e5f060215b59017be85ea48399127bd8e9c4d47b51056e03c1f361f7c9980f38f5b9b687b88e67b974a38388268433317893f9e6a29976d18e2ec4e546b729b92765b1056205d74d3ef50f199e9eef169713387e47d70":709bc4747d80044ed8f71afceed6df18107cc77":666206fa7b1d3e7c13157cc251a8e4a684af97789f1849f3335d14c010514c41976219624a75b5abc22ee7d3baaafae1c9baca2cc373f33f78e6143c395919aa7fac6a6e6b733af1d48827259d99a75505aca501ef2b04e33c32aa51f4b9e828efdb728cc0ab904905a91607e6369961bc82702d4df39fcee16b1":0

RSASSA-PSS Signature Example 1_3
pkcs1_rsa_pss_sign:1024:16:"a5664a0e0701017589a5187dce7a84a15d6f2ece036ad52a44defebfe161f7ad991d8c51056fbedd162b4c0f283a12a88a39df526ab7291cbb307ceabcfece0bf1d5cd59080965d2b86bdf5d671ef637770921c2b3c270a0e2598e6ff989919f105acc2d3fcb35f29820e1386b6664e4ef22e11e2f0d0ceec8cfbb2249db9a2137":16:"010001";SIG_RSA_SHA1:POLARSSL_MD_SHA1:"bc656747fa9eaf9eb03":16:"056f00985d14edef88f5e9a8e2f9e8c2f7ef20720335":"4609793b2ce9d09362d21bb47da0bf43fa7622649a47d464019b9aeafe35359c178c91cd58a6fcb78be0346a7be637f48b73d4abab38ee661f199634c547a1ad8442e03da015b13e5643f7ab07c0ce134225b8de8ce25df66e8400bf17e1833b7ee63433d70964ca79fd8b27d45223b5eeb08010519f1b532d155a6de87":0

RSASSA-PSS Signature Example 1_4
pkcs1_rsa_pss_sign:1024:16:"e789482720a877517273a356035a2e1a1b0c94aa9725d5c6e68296b2df6c976948af7a2ccbc7a7eaebc3570609a1df55a1535bb3c34160b36d3ed3a8e4644":16:"b96d9ac1f7d4d7ece1817e5b90f6cca874a9cde1234d720108a09a04796eb4886d876d20f919d85b3275784f542c0d20d3c724369334a119425452b269a67979":16:"a5664a0e0701017589a5187dce7a84a15d6f2ece036ad52a44defebfe161f7ad991d8c51056fbedd162b4c0f283a12a88a394df526ab7291cbb307ceabcfece0bf1d5cd59080965d2b86bdf5d671ef637770921c2b3c270a0e2598e6ff989919f105acc2d3fcb35f29820e1386b6664e4ef22e11e2f0d0ceec8cfbb2249db9a2137":16:"010001";SIG_RSA_SHA1:POLARSSL_MD_SHA1:"bc656747fa9eaf9eb03":16:"056f00985d14edef88f5e9a8e2f9e8c2f7ef20720335":"4609793b2ce9d09362d21bb47da0bf43fa7622649a47d464019b9aeafe35359c178c91cd58a6fcb78be0346a7be637f48b73d4abab38ee661f199634c547a1ad8442e03da015b13e5643f7ab07c0ce134225b8de8ce25df66e8400bf17e1833b7ee63433d70964ca79fd8b27d45223b5eeb08010519f1b532d155a6de87":0

RSASSA-PSS Signature Example 1_5
pkcs1_rsa_pss_sign:1024:16:"a5664a0e0701017589a5187dce7a84a15d6f2ece036ad52a44defebfe161f7ad991d8c51056fbedd162b4c0f283a12a88a39df526ab7291cbb307ceabcfece0bf1d5cd59080965d2b86bdf5d671ef637770921c2b3c270a0e2598e6ff989919f105acc2d3fcb35f29820e1386b6664e4ef22e11e2f0d0ceec8cfbb2249db9a2137":16:"010001";SIG_RSA_SHA1:POLARSSL_MD_SHA1:"bc656747fa9eaf9eb03":16:"056f00985d14edef88f5e9a8e2f9e8c2f7ef20720335":"4609793b2ce9d09362d21bb47da0bf43fa7622649a47d464019b9aeafe35359c178c91cd58a6fcb78be0346a7be637f48b73d4abab38ee661f199634c547a1ad8442e03da015b13e5643f7ab07c0ce134225b8de8ce25df66e8400bf17e1833b7ee63433d70964ca79fd8b27d45223b5eeb08010519f1b532d155a6de87":0
RSASSA-PSS Signature Example 1.1

pkcs1_rsa_signature:1025:16:016601e926a0f8c9e26cabc769ea65a5e7c52cc9e080ef519457e644a68915c1a04d3e3a7955992a2227c68a7a9f9ca7773c329be3d36506c3e4043997e59d1':16014afa1d0f14dada7e31f87d71281ddada265664869e8379e67ad3b75e7a4580e9827abd6eb7a002cb54115267767768fb8e59e40e3e8a01f35f89e56c079':16014d01bc97a68ae7c7dbdaa8f7e03fa9e1d9cccefe75a4754375f9514d8f86f006b82f841f9f876d1365ad68a1ff3a993e9abba3464011c303a9d9999fc0c7a8bb4777de97f060226dc8b711f1fc27e9360':57fbf160bc6b02bd1bc7280cf058530b7dd2832f7':'014c5ba5333828ccce7a90bf1c0ab36df60ff4797d3c12e4b639ed9136a56ce6c16dd884b99dfc5d124560b0742b736868ec90d0e999ab8d5f5dd1freff9ba04007a746ecfcb22d7fde225f54627cd56466131712190afaf45363a8357b9f6074624f8ab0ab0f433b1716d64bae70d8827848d8ef1e421c5754dd42c524b25b95b3':16000100:SIG_RSA_SHA1:POLARSSL_MD_SHA1:e4f8601a8a6d1a1e34447e0950c058703c668cf5df1d5d059c60dd414f415e82348a6d8e78 Schiff

RSASSA-PSS Signature Example 2.1 (verify)

pkcs1_rsa_signature_verify:1025:16:014d01bc97a68ae7c7dbdaa8f7e03fa9e1d9cccefe75a4754375f9514d8f86f006b82f841f9f876d1365ad68a1ff3a993e9abba3464011c303a9d9999fc0c7a8bb4777de97f060226dc8b711f1fc27e9360':57fbf160bc6b02bd1bc7280cf058530b7dd2832f7':'014c5ba5333828ccce7a90bf1c0ab36df60ff4797d3c12e4b639ed9136a56ce6c16dd884b99dfc5d124560b0742b736868ec90d0e999ab8d5f5dd1freff9ba04007a746ecfcb22d7fde225f54627cd56466131712190afaf45363a8357b9f6074624f8ab0ab0f433b1716d64bae70d8827848d8ef1e421c5754dd42c524b25b95b3':16000100:SIG_RSA_SHA1:POLARSSL_MD_SHA1:e4f8601a8a6d1a1e34447e0950c058703c668cf5df1d5d059c60dd414f415e82348a6d8e78 Schiff

RSASSA-PSS Signature Example 2.2

pkcs1_rsa_signature:1025:16:016601e926a0f8c9e26cabc769ea65a5e7c52cc9e080ef519457e644a68915c1a04d3e3a7955992a2227c68a7a9f9ca7773c329be3d36506c3e4043997e59d1':16014afa1d0f14dada7e31f87d71281ddada265664869e8379e67ad3b75e7a4580e9827abd6eb7a002cb54115267767768fb8e59e40e3e8a01f35f89e56c079':16014d01bc97a68ae7c7dbdaa8f7e03fa9e1d9cccefe75a4754375f9514d8f86f006b82f841f9f876d1365ad68a1ff3a993e9abba3464011c303a9d9999fc0c7a8bb4777de97f060226dc8b711f1fc27e9360':57fbf160bc6b02bd1bc7280cf058530b7dd2832f7':'014c5ba5333828ccce7a90bf1c0ab36df60ff4797d3c12e4b639ed9136a56ce6c16dd884b99dfc5d124560b0742b736868ec90d0e999ab8d5f5dd1freff9ba04007a746ecfcb22d7fde225f54627cd56466131712190afaf45363a8357b9f6074624f8ab0ab0f433b1716d64bae70d8827848d8ef1e421c5754dd42c524b25b95b3':16000100:SIG_RSA_SHA1:POLARSSL_MD_SHA1:e4f8601a8a6d1a1e34447e0950c058703c668cf5df1d5d059c60dd414f415e82348a6d8e78 Schiff

RSASSA-PSS Signature Example 2.2 (verify)

pkcs1_rsa_signature_verify:1025:16:014d01bc97a68ae7c7dbdaa8f7e03fa9e1d9cccefe75a4754375f9514d8f86f006b82f841f9f876d1365ad68a1ff3a993e9abba3464011c303a9d9999fc0c7a8bb4777de97f060226dc8b711f1fc27e9360':57fbf160bc6b02bd1bc7280cf058530b7dd2832f7':'014c5ba5333828ccce7a90bf1c0ab36df60ff4797d3c12e4b639ed9136a56ce6c16dd884b99dfc5d124560b0742b736868ec90d0e999ab8d5f5dd1freff9ba04007a746ecfcb22d7fde225f54627cd56466131712190afaf45363a8357b9f6074624f8ab0ab0f433b1716d64bae70d8827848d8ef1e421c5754dd42c524b25b95b3':16000100:SIG_RSA_SHA1:POLARSSL_MD_SHA1:e4f8601a8a6d1a1e34447e0950c058703c668cf5df1d5d059c60dd414f415e82348a6d8e78 Schiff
RSASSA-PSS Signature Example 2_4 (verify)

pkcs1_rsassa_pss_verify:1025:16:"01d40c1bf97a68ae7cdbd8a7bf3e34fa19dcca4e7f5a4754375f94514d88fed006fb289f8419f87df6315da68a1ff3a9038e9abb3464011c303ad99199f0c7e7a8b477dce82988844625b115e5e9a459ef808113b68343362fd689b472cb5e5cabe674350c59b6c17e17874f4b2f8fd3176a0176cf1d326c4b33c9":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"a7182c83ac18be6570a16ba9d54e3d3ddb4a4eabe060c4a243e196979f":8070ef2de945c2033876849ada3dd093762323d440:"009cd24f2de31234a0ae8c76ddad3230a62076141f16c52b8a1513a48ef6f010ee373f3d91a00a9ec2a5b3d2893007298c30396a959b06ba855559d93637a0a6108f6d2a2fda56d1ce2ee85c4d6b24a81c3a94b6c3d46fd06eb7c9166d8e94877c42e6223b0f925f1dec218d573l1bada78a488214796335b40b":0

RSASSA-PSS Signature Example 2_5

pkcs1_rsassa_pss_sign:1025:16:"016601e926a0f8c9e26ecab76a95e7c52cc9e080ef519457c644a6891c5a104d3e3a97955929a22e7c6a87af9c8d777c3ec2b98e3d3650bce404399b7e59d":16:"014eafa1d04184da7e31f877d1281ddaaa625664869e8379ef6d3b75e7a4580e9827dbab6eb7e002cb51f152676779f76b89e95e0a6e30a01f35f89e560c79":16:"01d40c1bf97a68ae7cdbd8a7bf3e34fa19dcca4e7f5a4754375f94514d88fed006fb289f8419f87df6315da68a1ff3a9038e9abb3464011c303ad99199f0c7e7a8b477dce82988844625b115e5e9a459ef808113b68343362fd689b472cb5e5cabe674350c59b6c17e17874f4b2f8fd3176a0176cf1d326c4b33c9":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"86a83d4a72ee932a4f5630a6f579a386b78ae88999e0abdd49034a4bcf854dd94f1094e2e8c7d1a719d19588e4ae4fc1bd25e953e3dd461f":17639a4e888d722c42f4d2079a8b92c23433b0c9":00ec430824391ebd3b4a43034de9a8ba466b8e36013d1671c3cf1f8260c374b19f0ee18c8d965012045e7e9bf73786712dfc85feced12ca11f9590bda8876740436cd12595a641b32efcb7a42e873b3cc3aaaf4e3d3c935de67f0674c0453b4f9d6f40460d441b816098ceb0106fe3472bc25f181f59db2e437ea3add18ec":0

RSASSA-PSS Signature Example 2_5 (verify)

pkcs1_rsassa_pss_verify:1025:16:"01d40c1bf97a68ae7cdbd8a7bf3e34fa19dcca4e7f5a4754375f94514d88fed006fb289f8419f87df6315da68a1ff3a9038e9abb3464011c303ad99199f0c7e7a8b477dce82988844625b115e5e9a459ef808113b68343362fd689b472cb5e5cabe674350c59b6c17e17874f4b2f8fd3176a0176cf1d326c4b33c9":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"049f9154d871ac4a7c7ab45325e0524957a067f8e8999e0abbd49034a4bcf854dd94f1094e2e8c7d1a719d19588e4ae4fc1bd25e953e3dd461f":17639a4e888d722c42f4d2079a8b92c23433b0c9":00ec430824391ebd3b4a43034de9a8ba466b8e36013d1671c3cf1f8260c374b19f0ee18c8d965012045e7e9bf73786712dfc85feced12ca11f9590bda8876740436cd12595a641b32efcb7a42e873b3cc3aaaf4e3d3c935de67f0674c0453b4f9d6f40460d441b816098ceb0106fe3472bc25f181f59db2e437ea3add18ec":0

RSASSA-PSS Signature Example 2_6

pkcs1_rsassa_pss_verify:1025:16:"01d40c1bf97a68ae7cdbd8a7bf3e34fa19dcca4e7f5a4754375f94514d88fed006fb289f8419f87df6315da68a1ff3a9038e9abb3464011c303ad99199f0c7e7a8b477dce82988844625b115e5e9a459ef808113b68343362fd689b472cb5e5cabe674350c59b6c17e17874f4b2f8fd3176a0176cf1d326c4b33c9":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"049f9154d871ac4a7c7ab45325e0524957a067f8e8999e0abbd49034a4bcf854dd94f1094e2e8c7d1a719d19588e4ae4fc1bd25e953e3dd461f":17639a4e888d722c42f4d2079a8b92c23433b0c9":00ec430824391ebd3b4a43034de9a8ba466b8e36013d1671c3cf1f8260c374b19f0ee18c8d965012045e7e9bf73786712dfc85feced12ca11f9590bda8876740436cd12595a641b32efcb7a42e873b3cc3aaaf4e3d3c935de67f0674c0453b4f9d6f40460d441b816098ceb0106fe3472bc25f181f59db2e437ea3add18ec":0

RSASSA-PSS Signature Example 2_6 (verify)
PKCS#1 RSASSA-PSS Verify Example 3_1:

```
open 1.0001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"37810def1055ed922b063d798e5d0a0aab88886e":"
04975b1648814a8dc0dbdc3b7527f543b666b66e393e05b49d
3b876d4ca58eac14e32a2d55c261014546ad2f246e8c36d560da3799a1c0fd0201210d7f8e219a151bc8d4ec9
2fc265467811014ef15d8ea01c2e6b88f8c2e6f8abf380965e57ce32857aa55851254afaf921c72b78758663ef45828
43139d7a":0
```
RSASSA-PSS Signature Example 3_5
pkcs1_rsa_signature example 3_5
"01bd36e18ece4b0fbd2e9c6d49b00712c51f0e466a1ffa691d98170574e9d0eadb087586ca49833da3cc953d95bd0ed506d10d6b8346b153ac9ff89f9d3a3abdbf69f00c2da1de12eb49ebd2991a65f2f2941ic7e1f1722c253fe068b669d373752e3f39ed992f237acb370c16e6f097cfebbf0118fd4e9275153f02f2909d070211b7a5a2bed8894214cf7d6
76cd918e170391dcd3c5456a73o964b3f03c0bceeb0bba2b0a6169fbae39cf8a66607f750347f0a791f6af0a81d2921d2ee6f386b8":0

RSASSA-PSS Signature Example 3_5 (verify)
pkcs1_rsa_signature verify example 3_5
02f246ef451ed3eeeb9a3102002cc25590c048e4e798302099112e686c6ed674e280da21fedc1ae74880ca352b16d20493501287c51f0e466a1efa691d98170574e9d0eadb087586ca49833da3cc953d95bd0ed506d10d6b8346b153ac9ff89f9d3a3abdbf69f00c2da1de12eb49ebd2991a65f2f2941ic7e1f1722c253fe068b669d373752e3f39ed992f237acb370c16e6f097cfebbf0118fd4e9275153f02f2909d070211b7a5a2bed8894214cf7d6
76cd918e170391dcd3c5456a73o964b3f03c0bceeb0bba2b0a6169fbae39cf8a66607f750347f0a791f6af0a81d2921d2ee6f386b8":0

RSASSA-PSS Signature Example 3_6
pkcs1_rsa_signature example 3_6
"01bd36e18ece4b0fbd2e9c6d49b00712c51f0e466a1ffa691d98170574e9d0eadb087586ca49833da3cc953d95bd0ed506d10d6b8346b153ac9ff89f9d3a3abdbf69f00c2da1de12eb49ebd2991a65f2f2941ic7e1f1722c253fe068b669d373752e3f39ed992f237acb370c16e6f097cfebbf0118fd4e9275153f02f2909d070211b7a5a2bed8894214cf7d6
76cd918e170391dcd3c5456a73o964b3f03c0bceeb0bba2b0a6169fbae39cf8a66607f750347f0a791f6af0a81d2921d2ee6f386b8":0

RSASSA-PSS Signature Example 3_6 (verify)
pkcs1_rsa_signature verify example 3_6
02f246ef451ed3eeeb9a3102002cc25590c048e4e798302099112e686c6ed674e280da21fedc1ae74880ca352b16d20493501287c51f0e466a1efa691d98170574e9d0eadb087586ca49833da3cc953d95bd0ed506d10d6b8346b153ac9ff89f9d3a3abdbf69f00c2da1de12eb49ebd2991a65f2f2941ic7e1f1722c253fe068b669d373752e3f39ed992f237acb370c16e6f097cfebbf0118fd4e9275153f02f2909d070211b7a5a2bed8894214cf7d6
76cd918e170391dcd3c5456a73o964b3f03c0bceeb0bba2b0a6169fbae39cf8a66607f750347f0a791f6af0a81d2921d2ee6f386b8":0
RSASSA-PSS Signature Example 4_1

pkcs1_rsa_pss_sign:1027:16"02923236d2388495db9dd7723f6e24a05f73759b29480847a4e18a5f3ca07f1ele59f54794227f89b6d42354a9da06de61e515e10d8eb7559e12fd77c335494498848cb995940740be7bf7c370":"010001";SIG_RSA_SHA1:POLARSSL_MD_SHA1:"7ed7c98c95f30974f4be4fddc0f26d021ce91d":"03235b7f7b0ba4539289a4e52ae49227900ffef4518423f4f81a18737ed878136edcfbab54514f0ff857d6ec4b90b9db0b1ece54f35ad42353a9a9da0ce06de61e515e10d8eb7559e12fd77c335494498848cb995940740be7bf7c370":0

RSASSA-PSS Signature Example 4_1 (verify)

pkcs1_rsa_pss_verify:1027:16"054adb788447e6f657ef036806fcf25b0a3370760d161ce12b91be7f89e421b62a6ec1da3c31175ed50e0ab5ff3f3d383acc3aa8ae4e77ee26369ac8b1ba900af83f5303cf9bb653aecd1aca81788b15db42354a9da0ce06de61e515e10d8eb7559e12fd77c335494498848cb995940740be7bf7c370":"010001";SIG_RSA_SHA1:POLARSSL_MD_SHA1:"0ca2ad777ece86e5b576875dd5bed6a3116d99d1b7ed7f8720dbed10506ff76668680e5ca402dc0dd116b0e8d910de2b0461e1aa43a8be68203927e938cb4ea939f388602cf7f960942305bbf30a999d530cb4257d60033768836c6a710e0aae7e2093038b73959885e872c20b1":"054adb788447e6f657ef036806fcf25b0a3370760d161ce12b91be7f89e421b62a6ec1da3c31175ed50e0ab5ff3f3d383acc3aa8ae4e77ee26369ac8b1ba900af83f5303cf9bb653aecd1aca81788b15db42354a9da0ce06de61e515e10d8eb7559e12fd77c335494498848cb995940740be7bf7c370":0

RSASSA-PSS Signature Example 4_2

pkcs1_rsa_pss_sign:1027:16"02923236d2388495db9dd7723f6e24a05f73759b29480847a4e18a5f3ca07f1ele59f54794227f89b6d42354a9da06de61e515e10d8eb7559e12fd77c335494498848cb995940740be7bf7c370":"010001";SIG_RSA_SHA1:POLARSSL_MD_SHA1:"7ed7c98c95f30974f4be4fddc0f26d021ce91d":"03235b7f7b0ba4539289a4e52ae49227900ffef4518423f4f81a18737ed878136edcfbab54514f0ff857d6ec4b90b9db0b1ece54f35ad42353a9a9da0ce06de61e515e10d8eb7559e12fd77c335494498848cb995940740be7bf7c370":0

RSASSA-PSS Signature Example 4_2 (verify)

pkcs1_rsa_pss_verify:1027:16"054adb788447e6f657ef036806fcf25b0a3370760d161ce12b91be7f89e421b62a6ec1da3c31175ed50e0ab5ff3f3d383acc3aa8ae4e77ee26369ac8b1ba900af83f5303cf9bb653aecd1aca81788b15db42354a9da0ce06de61e515e10d8eb7559e12fd77c335494498848cb995940740be7bf7c370":0
RSASSA-PSS Signature Example 4_3

pkcs_1_rsa_pss_sign:1027:16:"029232336d2838945dba190dd7723f4e624a05f7375b927a87abe6a893a1658f4d94f7f6c7b0fa596c65fa6a20fa0b4329e6d184343b3d6d671a5ea8d148413995":16":"020e5f7e5c3594aedd2272f781a74f4c02d145894cb13cbac32a90710a2afce73293acbb743d01f680a0d2afbc8fde7e20930811b2b959788b8e72c20bb1":16":"054adbd788f447e68f57e036806f06c520aa3307760d616cefe26b91be7f89e42162a6a6edca3c311d75ed50e0ab5ff3f338acc3aa8ae7e726369aeb81a90fafa3f5300c9b66d35ad1dca187b8815db2435a9ab40d066e615ea1277ce559e9c108de589a17775af68d133549498848bc95947040be7bf7c3705":16":"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"288062a0c0f7be7c5f586b092837300461dd5676c17a20a3e88b5148949e37f866e38ac827240ec275be3ce43328ee7d6df6fa0c9b5b15bca169a097e11d54d3d45ab123962d585b76b6e79d19801ca124af870b6c516012ca916c70a882ac7ae8243617":"03bc410a0ed59500fb999992af2781ada74a1314562406278229949513efca0519edc25385b55b266a90d771ae20bc6e47a1999cd9f8e3269733af41635399907137afa906f0652721432b97103d6a718a2bc0ab34b0b598b6e2174616d7b305ff7e9545e5bb231c39e791afbcf76b147b081321f7241482a2aad":0

RSASSA-PSS Signature Example 4_3 (verify)
pkcs_1_rsa_pss_verify:1027:16:"054adbd788f447e68f57e036806f06c520aa3307760d616cefe26b91be7f89e42162a6a6edca3c311d75ed50e0ab5ff3f338acc3aa8ae7e726369aeb81a90fafa3f5300c9b66d35ad1dca187b8815db2435a9ab40d066e615ea1277ce559e9c108de589a17775af68d133549498848bc95947040be7bf7c3705":16":"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"288062a0c0f7be7c5f586b092837300461dd5676c17a20a3e88b5148949e37f866e38ac827240ec275be3ce43328ee7d6df6fa0c9b5b15bca169a097e11d54d3d45ab123962d585b76b6e79d19801ca124af870b6c516012ca916c70a882ac7ae8243617":"03bc410a0ed59500fb999992af2781ada74a1314562406278229949513efca0519edc25385b55b266a90d771ae20bc6e47a1999cd9f8e3269733af41635399907137afa906f0652721432b97103d6a718a2bc0ab34b0b598b6e2174616d7b305ff7e9545e5bb231c39e791afbcf76b147b081321f7241482a2aad":0

RSASSA-PSS Signature Example 4_4

pkcs_1_rsa_pss_sign:1027:16:"029232336d2838945dba190dd7723f4e624a05f7375b927a87abe6a893a1658f4d94f7f6c7b0fa596c65fa6a20fa0b4329e6d184343b3d6d671a5ea8d148413995":16":"020e5f7e5c3594aedd2272f781a74f4c02d145894cb13cbac32a90710a2afce73293acbb743d01f680a0d2afbc8fde7e20930811b2b959788b8e72c20bb1":16":"054adbd788f447e68f57e036806f06c520aa3307760d616cefe26b91be7f89e42162a6a6edca3c311d75ed50e0ab5ff3f338acc3aa8ae7e726369aeb81a90fafa3f5300c9b66d35ad1dca187b8815db2435a9ab40d066e615ea1277ce559e9c108de589a17775af68d133549498848bc95947040be7bf7c3705":16":"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"6f4f9ab9501199cef55f8644bc66bf75d28335a6179b10851f43f09bedf9ac1af33232bb9953b54289cd6466b27539a70ada3f389db3d3c74ab635d12142fece557a61e59b82f2fb786630e59fb53c77d9a0c12f1ab5958d4ce7cdaa070cd89ba2cc7fcdd02ff470ca67b229fcee814c852c733ce93bea35be68459ce4789ed45655d121c8472f371d4":0

RSASSA-PSS Signature Example 4_4 (verify)
RSASSA-PSS Signature Example 4_5

pkcs1_rsassa_pss_verify: 1027:16 "054adb 7886447e6e6f57e0368f06cf520a3370760d16cef2b691be7f89c421b62a6ec1da3c31175ed5e00a5bf5fd3383ace3aa8ae7e26c699cb819900fa83f5300cf9b6b653ad1dc8a1788b15db4235a9a9da0c06de4615ea1277ce559e9c108de58c14a8a1775f5a6fd133549498848e8b95940740be7fb7c3705": 16 "010001": SIG_RSA_SHA1: POLARSSL_MD_SHA1: "64f9a9b5011199cef556c40f8f7cb63557c9d420a47636d2463c8ad44b3fc5be2742c0e7d9b6f0608f87c7f469e39": 16 "0a2e0fe1ea439c190b6c50e2ce014d9fa26": "0486644be66b75d28335a1619b01851f4309bd9ed9fac1a3f3325b29b953b4a2998dbd66b27539a70ada3f89b3db3c74a6b35d1224fee7ce557a6e59b82fb786630e5f9db5c57ed904c12fa5958d4ce2c7daa807cd89ba2cc7fcd032ff470ca67b29f18e14852c73c93e35be68459e4ce78e9d4655d5121e8472f371d4f: 0

RSASSA-PSS Signature Example 4_6

pkcs1_rsassa_pss_sign: 1027:16 "029d23236d2838945db9ad7723fe462a05f7375b927a87abe693a165f8d49f47f6c7b0fa596c65fa68a230fa032b01d4343b6fd671a5e8ad1d48413995": 16 "020ef5efe7c5399ead2272f7e81a74fe402d145894cb1b3cab23a90710a2afece37332acaeb743d0f1680c0d2a4f8c8fde7e20930811b2b2995788b5e872c20bb1": 16 "054adb 7886447e6e6f57e0368f06cf520a3370760d16cef2b691be7f89c421b62a6ec1da3c31175ed5e00a5bf5fd3383ace3aa8ae7e26c699cb819900fa83f5300cf9b6b653ad1dc8a1788b15db4235a9a9da0c06de4615ea1277ce559e9c108de58c14a8a1775f5a6fd133549498848e8b95940740be7fb7c3705": 16 "010001": SIG_RSA_SHA1: POLARSSL_MD_SHA1: "afbc19d479249018fdf4e09f618726440121f32460d3-fw5ed6a0e9f356756177984a58f475685216588937e9239c34cd22d2354812025090c9eb03d8335b55d048v56d6688ac19f4ed15085a0da4e3739b4ea45509566919152c23e09954edeb20a47c5d16c3681646ed7f2ed5ea247950e17baed250ff6d1123633add58516b85ae89fa9c5f03c3fb3fb793": 2497d2cb4b615f5afe66b364df5db6bfe7ef11304: "022a800453539930cb3cbb524d72d949022a1fe66e16a8029a8422adff8c4cc02494a110a0c06c86ea7d3643143459bb1ae8ff38d65a8a2579840906632b019f13a13fa3d78d39a1656d25ae273930fc53670b35d93c3bac08e733e4ec2b83af9b196d63e7c7f5de0a27229a11915b8de8a8dbde8cccf14ffaf6e6f6b0a": 0

RSASSA-PSS Signature Example 4_7

pkcs1_rsassa_pss_verify: 1027:16 "054adb 7886447e6e6f57e0368f06cf520a3370760d16cef2b691be7f89c421b62a6ec1da3c31175ed5e00a5bf5fd3383ace3aa8ae7e26c699cb819900fa83f5300cf9b6b653ad1dc8a1788b15db4235a9a9da0c06de4615ea1277ce559e9c108de58c14a8a1775f5a6fd133549498848e8b95940740be7fb7c3705": 16 "010001": SIG_RSA_SHA1: POLARSSL_MD_SHA1: "afbc19d479249018fdf4e09f618726440121f32460d3-fw5ed6a0e9f356756177984a58f475685216588937e9239c34cd22d2354812025090c9eb03d8335b55d048v56d6688ac19f4ed15085a0da4e3739b4ea45509566919152c23e09954edeb20a47c5d16c3681646ed7f2ed5ea247950e17baed250ff6d1123633add58516b85ae89fa9c5f03c3fb3fb793": 2497d2cb4b615f5afe66b364df5db6bfe7ef11304: "022a800453539930cb3cbb524d72d949022a1fe66e16a8029a8422adff8c4cc02494a110a0c06c86ea7d3643143459bb1ae8ff38d65a8a2579840906632b019f13a13fa3d78d39a1656d25ae273930fc53670b35d93c3bac08e733e4ec2b83af9b196d63e7c7f5de0a27229a11915b8de8a8dbde8cccf14ffaf6e6f6b0a": 0
RSASSA-PSS Signature Example 5_1

pkcs1_rsa_pss_verify:1028:16:"0d10f661f29940f5ed39aa260966deb47843679d2b6fb2b53de370f3ac7c19916911d25f527be6fa4b4df45a17593996cbcbb44b4db1882844fc52d0191781740525f47a4b00ce8da325edaa6760bd0f626e0a7f70f6921700acca8082f42faa7dc7cd3e3703a187985204acbcbe6670d43a2dd2b2ddef505392fd213bc507":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:e7b32e1556ea1b2795046ac97939722ac89666b11ce116614b166740e96b0653e5705945fc772186c03790a7fd3a327e6a1916706ee2157b3df80d67d5e39a53e268c80109ed99a73200500bce0a4afed857a0e72013b306e0a8fd783909a225358b1c49f52d0191871740525f47a4b00ce8da325edaa6760bd0f626e07f70f6921700acca8082f42faa7dc7cd3e3703a187985204acbcbe6670d43a2dd2b2ddef505392fd213bc507":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:

RSASSA-PSS Signature Example 5_2

pkcs1_rsa_pss_verify:1028:16:"0d10f661f29940f5ed39aa260966deb47843679d2b6fb2b53de370f3ac7c19916911d25f527be6fa4b4df45a17593996cbcbb44b4db1882844fc52d0191781740525f47a4b00ce8da325edaa6760bd0f626e07f70f6921700acca8082f42faa7dc7cd3e3703a187985204acbcbe6670d43a2dd2b2ddef505392fd213bc507":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:e7b32e1556ea1b2795046ac97939722ac89666b11ce116614b166740e96b0653e5705945fc772186c03790a7fd3a327e6a1916706ee2157b3df80d67d5e39a53e268c80109ed99a73200500bce0a4afed857a0e72013b306e0a8fd783909a225358b1c49f52d0191871740525f47a4b00ce8da325edaa6760bd0f626e07f70f6921700acca8082f42faa7dc7cd3e3703a187985204acbcbe6670d43a2dd2b2ddef505392fd213bc507":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:

RSASSA-PSS Signature Example 5_3

pkcs1_rsa_pss_verify:1028:16:"0d10f661f29940f5ed39aa260966deb47843679d2b6fb2b53de370f3ac7c19916911d25f527be6fa4b4df45a17593996cbcbb44b4db1882844fc52d0191781740525f47a4b00ce8da325edaa6760bd0f626e07f70f6921700acca8082f42faa7dc7cd3e3703a187985204acbcbe6670d43a2dd2b2ddef505392fd213bc507":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:e7b32e1556ea1b2795046ac97939722ac89666b11ce116614b166740e96b0653e5705945fc772186c03790a7fd3a327e6a1916706ee2157b3df80d67d5e39a53e268c80109ed99a73200500bce0a4afed857a0e72013b306e0a8fd783909a225358b1c49f52d0191871740525f47a4b00ce8da325edaa6760bd0f626e07f70f6921700acca8082f42faa7dc7cd3e3703a187985204acbcbe6670d43a2dd2b2ddef505392fd213bc507":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:

RSASSA-PSS Signature Example 5_3 (verify)

pkcs1_rsa_pss_verify:1028:16:"0d10f661f29940f5ed39aa260966deb47843679d2b6fb2b53de370f3ac7c19916911d25f527be6fa4b4df45a17593996cbcbb44b4db1882844fc52d0191781740525f47a4b00ce8da325edaa6760bd0f626e07f70f6921700acca8082f42faa7dc7cd3e3703a187985204acbcbe6670d43a2dd2b2ddef505392fd213bc507":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:e7b32e1556ea1b2795046ac97939722ac89666b11ce116614b166740e96b0653e5705945fc772186c03790a7fd3a327e6a1916706ee2157b3df80d67d5e39a53e268c80109ed99a73200500bce0a4afed857a0e72013b306e0a8fd783909a225358b1c49f52d0191871740525f47a4b00ce8da325edaa6760bd0f626e07f70f6921700acca8082f42faa7dc7cd3e3703a187985204acbcbe6670d43a2dd2b2ddef505392fd213bc507":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:

RSASSA-PSS Signature Example 5_3 (verify)

pkcs1_rsa_pss_verify:1028:16:"0d10f661f29940f5ed39aa260966deb47843679d2b6fb2b53de370f3ac7c19916911d25f527be6fa4b4df45a17593996cbcbb44b4db1882844fc52d0191781740525f47a4b00ce8da325edaa6760bd0f626e07f70f6921700acca8082f42faa7dc7cd3e3703a187985204acbcbe6670d43a2dd2b2ddef505392fd213bc507":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:

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RSASSA-PSS Signature Example 5_4

 RSASSA-PSS Signature Example 5_5

 RSASSA-PSS Signature Example 5_6

 RSASSA-PSS Signature Example 5_7
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RSASSA-PSS Signature Example 6_1 (verify)

RSASSA-PSS Signature Example 6_2

RSASSA-PSS Signature Example 6_3

RSASSA-PSS Signature Example 6_2 (verify)

RSASSA-PSS Signature Example 6_3

Open Source Used In HyperFlex HX Data Platform 5.0 (1a) 16635
RSASSA-PSS Signature Example 7_1
pkcs1_rsassa_pss_sign:1030:16:"07eefb424b0e3a04e0208ee5af8b280b22317308114dde0b4b4f730184e668a6e2ce2876a9f48ed7726dc52a4054a0107636c8c71cc0704274298c6262a0f753":16:"070830d89f47ee0022d286314b59b66994cc6e8360e75d637629f8f8a7ad1496a41e8206a973e2f8254738ee669c7219b034cb5f8e244dadd7c1e159d54":16:"37c94a6a6ec8408b8da270dc9d7cb89cecb1a2dfec4f8746d4907e4ef5dee1e8ad1264ceafaa04b3888be2c515386759f93f02042b5ab924f823578d8f3df49640ee5e46a66464e6e27f0879727e8f0f3993333915e6ef21f597b56e0511b5008ec33e9f0f0a5a45a1a0538a7dcb9a885e5d3548002d7064ea29ab3":16:"010001";SIG_RSA_SHA1:POLARSSL_MD_SHA1:"9ead0e01945640674eb14435e2374eaf8ad79197913c45348d783f0d76e06e39f90eaf30214210a744ade9626e3d3b3bb17fe44f65b20911595b9bf2791474205e5e062b5ca51848cfcc96c5e5eb5f70c0adc16da367cc45264a14911b347e5b5f11daa55ce7ecb74df060010d3e97592000e230397e17b67722df8959745eae4f4d511c805180b3b9ca7d01b2e8a1d783f7a27570ac6d6e23080561cb9e975ccfd80b23dc5771cdb3306af523159dadcb34a2db93d46766e09ed15d900ad897a827d426b47e994a279e2268a766533ae4b5e5e2a2fcdf755c1c479b294c6055582":0

RSASSA-PSS Signature Example 7_1 (verify)
pkcs1_rsassa_pss_verify:1030:16:"37c94a6a6ec8408b8da270dc9d7cb89cecb1a2dfec4f8746d4907e4ef5dee1e8ad1264ceafaa04b3888be2c515386759f93f02042b5ab924f823578d8f3df49640ee5e46a66464e6e27f0879727e8f0f3993333915e6ef21f597b56e0511b5008ec33e9f0f0a5a45a1a0538a7dcb9a885e5d3548002d7064ea29ab3":16:"010001";SIG_RSA_SHA1:POLARSSL_MD_SHA1:"9ead0e01945640674eb14435e2374eaf8ad79197913c45348d783f0d76e06e39f90eaf30214210a744ade9626e3d3b3bb17fe44f65b20911595b9bf2791474205e5e062b5ca51848cfcc96c5e5eb5f70c0adc16da367cc45264a14911b347e5b5f11daa55ce7ecb74df060010d3e97592000e230397e17b67722df8959745eae4f4d511c805180b3b9ca7d01b2e8a1d783f7a27570ac6d6e23080561cb9e975ccfd80b23dc5771cdb3306af523159dadcb34a2db93d46766e09ed15d900ad897a827d426b47e994a279e2268a766533ae4b5e5e2a2fcdf755c1c479b294c6055582":0
**RSASSA-PSS Signature Example 7_2 (verify)**
pkcs1_rsassa_pss_verify:1030:16:"379daa466c8c408b8da27d0c9d79f8ccb1eafc1d2fe48746d904b7e4ef5dee18ad11813d9fe4b31888b221c515386759b93f02024b29b52f8357df83fd49640ee5e643aef6c64eeefa0789727c8ff03993339315cefe21bf57957b6e50d118b5000ecc33e9f01a054a10a836a43ddbec9adbbe5c5d3548022d7064a29ab3":"100001";SIG_RSA_SHA1:POLARSSL_MD_SHA1:"798ce8c8c1d2fe48746d904b7e4ef5dee18ad126d7ebeb7788b31888b221c515386759b93f02024b29b52f8357df83fd49640ee5e643aef6c64eeefa0789727c8ff03993339315cefe21bf57957b6e50d118b5000ecc33e9f01a054a10a836a43ddbec9adbbe5c5d3548022d7064a29ab3":"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"8d80d2d08dbd19c154df314673a14bd0373521f24ae86bf1530d6e9747b17b1833e66d4383f680124370f09c969c6560237666454ac3";"0995822660d8301021bae1718d6f6de6e09":"10d87967a60a6778abb5856a8778561f33edc9a383eb89f7de87ab8cec79429b4e56906941a886194f137591fe7339555361f3bbe1f242fe4bd4c8b060012f30696b193102e0ae12768273964c94d1c6c8269316c4f11176e42fc597c78c8759a4b4b99a1040aaf68f53d33023eb54d14fde61d009393de515e70eb8":0

**RSASSA-PSS Signature Example 7_3**
pkcs1_rsassa_pss_sign:1030:16:"07eefb424b0e3a40e4208ee5afb2f80a27b2137038114d0de4b4f3780184ec68a6ce28637a9f48ed77265de2614ed04a046103763c8c7174ee0724742986ca2f07a55":"070803df947eaoc228de26314b59b6e9994cc60e8360e75d38768298ff8a7ad141a064e5ca0268a73e2883f4738e3697a2b304b45f8e24دادdd7cd1e19547":"16:379daa466c8c408b8da27d0c9d79f8ccb1eafc1d2fe48746d904b7e4ef5dee18ad126d7ebeb7788b31888b221c515386759b93f02024b29b52f8357df83fd49640ee5e643aef6c64eeefa0789727c8ff03993339315cefe21bf57957b6e50d118b5000ecc33e9f01a054a10a836a43ddbec9adbbe5c5d3548022d7064a29ab3":16:"100001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"8d80d2d08dbd19c154df314673a14bd0373521f24ae86bf1530d6e9747b17b1833e66d4383f680124370f09c969c6560237666454ac3";"0995822660d8301021bae1718d6f6de6e09":"10d87967a60a6778abb5856a8778561f33edc9a383eb89f7de87ab8cec79429b4e56906941a886194f137591fe7339555361f3bbe1f242fe4bd4c8b060012f30696b193102e0ae12768273964c94d1c6c8269316c4f11176e42fc597c78c8759a4b4b99a1040aaf68f53d33023eb54d14fde61d009393de515e70eb8":0

**RSASSA-PSS Signature Example 7_4**
pkcs1_rsassa_pss_sign:1030:16:"07eefb424b0e3a40e4208ee5afb2f80a27b2137038114d0de4b4f3780184ec68a6ce28637a9f48ed77265de2614ed04a046103763c8c7174ee0724742986ca2f07a55":"070803df947eaoc228de26314b59b6e9994cc60e8360e75d38768298ff8a7ad141a064e5ca0268a73e2883f4738e3697a2b304b45f8e24دادdd7cd1e19547":"16:379daa466c8c408b8da27d0c9d79f8ccb1eafc1d2fe48746d904b7e4ef5dee18ad126d7ebeb7788b31888b221c515386759b93f02024b29b52f8357df83fd49640ee5e643aef6c64eeefa0789727c8ff03993339315cefe21bf57957b6e50d118b5000ecc33e9f01a054a10a836a43ddbec9adbbe5c5d3548022d7064a29ab3":16:"100001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"8d80d2d08dbd19c154df314673a14bd0373521f24ae86bf1530d6e9747b17b1833e66d4383f680124370f09c969c6560237666454ac3";"0995822660d8301021bae1718d6f6de6e09":"10d87967a60a6778abb5856a8778561f33edc9a383eb89f7de87ab8cec79429b4e56906941a886194f137591fe7339555361f3bbe1f242fe4bd4c8b060012f30696b193102e0ae12768273964c94d1c6c8269316c4f11176e42fc597c78c8759a4b4b99a1040aaf68f53d33023eb54d14fde61d009393de515e70eb8":0

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RSASSA-PSS Signature Example 7_4 (verify)

pkcs1_rsassa_pss_verify:1030:16:"37c9da4a66c8c408b8da27d0c9d79f98ccbebaf1ed2f48746d940b7c4ef5deee1ad12647ceafafaeb3188b221c351386759f3b930f2024b2a5b9242f8357d8f3fd4960e5ee64af6c6deefa7089727c8f039
93333315ceefce2bf59766e0501185008ce33e9f01a05a58a3643ddba9db85c5d3548022d7064ea29ab3":16:
"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"37c9da4a66c8c408b8da27d0c9d79f98ccbebaf1ed2f48746d940b7c4ef5deee1ad12647ceafafaeb3188b221c351386759f3b930f2024b2a5b9242f8357d8f3fd4960e5ee64af6c6deefa7089727c8f039
93333315ceefce2bf59766e0501185008ce33e9f01a05a58a3643ddba9db85c5d3548022d7064ea29ab3";

RSASSA-PSS Signature Example 7_5

pkcs1_rsassa_pss_sign:1030:16:"07eefb424b0e3a40e4208e5aafe2bbf280b22317308114dde0b0b4f730184eece686ad2e28
67a9f48ed7726de5e2614de0a541073638c714ee70247429829f2a0753":16:"0708390b9ff4ea00228de26314b59b
669946ce06e836e075d3876928ff8a7e1d4106e45e5ca0f29a73e28f2547839ce66962b314b5f8e24dd7cd1e159d
547":16:"37c9da466ec408b8da27d0c9d79f98ccbebaf1ed2f48746d940b7c4ef5deee1ad12647ceafafaeb3188b221c351386759f3b930f2024b2a5b9242f8357d8f3fd4960e5ee64af6c6deefa7089727c8f039
93333315ceefce2bf59766e0501185008ce33e9f01a05a58a3643ddba9db85c5d3548022d7064ea29ab3":16:
"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"f37c9da4a66c8c408b8da27d0c9d79f98ccbebaf1ed2f48746d940b7c4ef5deee1ad12647ceafafaeb3188b221c351386759f3b930f2024b2a5b9242f8357d8f3fd4960e5ee64af6c6deefa7089727c8f039
93333315ceefce2bf59766e0501185008ce33e9f01a05a58a3643ddba9db85c5d3548022d7064ea29ab3";

RSASSA-PSS Signature Example 7_6

pkcs1_rsassa_pss_verify:1030:16:"37c9da466ec408b8da27d0c9d79f98ccbebaf1ed2f48746d940b7c4ef5deee1ad12647ceafafaeb3188b221c351386759f3b930f2024b2a5b9242f8357d8f3fd4960e5ee64af6c6deefa7089727c8f039
93333315ceefce2bf59766e0501185008ce33e9f01a05a58a3643ddba9db85c5d3548022d7064ea29ab3":16:
"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"37c9da466ec408b8da27d0c9d79f98ccbebaf1ed2f48746d940b7c4ef5deee1ad12647ceafafaeb3188b221c351386759f3b930f2024b2a5b9242f8357d8f3fd4960e5ee64af6c6deefa7089727c8f039
93333315ceefce2bf59766e0501185008ce33e9f01a05a58a3643ddba9db85c5d3548022d7064ea29ab3";

RSASSA-PSS Signature Example 7_7

pkcs1_rsassa_pss_verify:1030:16:"37c9da466ec408b8da27d0c9d79f98ccbebaf1ed2f48746d940b7c4ef5deee1ad12647ceafafaeb3188b221c351386759f3b930f2024b2a5b9242f8357d8f3fd4960e5ee64af6c6deefa7089727c8f039
93333315ceefce2bf59766e0501185008ce33e9f01a05a58a3643ddba9db85c5d3548022d7064ea29ab3":16:
"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"37c9da466ec408b8da27d0c9d79f98ccbebaf1ed2f48746d940b7c4ef5deee1ad12647ceafafaeb3188b221c351386759f3b930f2024b2a5b9242f8357d8f3fd4960e5ee64af6c6deefa7089727c8f039
93333315ceefce2bf59766e0501185008ce33e9f01a05a58a3643ddba9db85c5d3548022d7064ea29ab3";

RSASSA-PSS Signature Example 7_8

pkcs1_rsassa_pss_verify:1030:16:"37c9da466ec408b8da27d0c9d79f98ccbebaf1ed2f48746d940b7c4ef5deee1ad12647ceafafaeb3188b221c351386759f3b930f2024b2a5b9242f8357d8f3fd4960e5ee64af6c6deefa7089727c8f039
93333315ceefce2bf59766e0501185008ce33e9f01a05a58a3643ddba9db85c5d3548022d7064ea29ab3":16:
"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"37c9da466ec408b8da27d0c9d79f98ccbebaf1ed2f48746d940b7c4ef5deee1ad12647ceafafaeb3188b221c351386759f3b930f2024b2a5b9242f8357d8f3fd4960e5ee64af6c6deefa7089727c8f039
93333315ceefce2bf59766e0501185008ce33e9f01a05a58a3643ddba9db85c5d3548022d7064ea29ab3";

RSASSA-PSS Signature Example 7_9

Open Source Used In HyperFlex HD Data Platform 5.0(1a) 16640
1:POLARSSL_MD_SHA1:1'2358097086c899323e75d9c890d0c09f12d9d54edbfbd70a9c2e9b5a04d8f369b2bdf2aabe
0a5da0b1a968979799d6ebed3b6b257ebf3136d413199db958e5260262a36c3d835494a1f4ee5c18b226c80322363a75a45
f6f09a7ea9e9efbde1450d1194bf12e15a4c5f9e5c5e25e269e0c3b28cfa56d558d8a16a10b4be25f45499b25a0db94c5
2218be109a7426de830144247899a90e5056632a698115e282a156410f26c207219394a19dcd80572050e64f408
2ecf";312ecf5958087ad47d7fcfcb3a04983a54c4b73";18da3dce3f79fb7f7dfc3f2f73a73d9914f00a8e8106022332
1a6ed3c84930315cde92dc79b55d3e11615aa056a795835792a3998c349ac54578ea7d729d796a2a483491709becf
b1510ea513c92829a300b104f6556534f3207521e130ec0c6754f5893db302322b025eb0e87822598f6e190e98173
7a9ac41523d3":0

RSASSA-PSS Signature Example 7_6 (verify)

pkcs1_rsassa_pss_verify:1030:16:"37c9da4a66c8a408b8d8a27d0c9d79f8cbebaf1d2e48746d904b7ce57e5f5e181d2647c6fae0b4c3188bb22c151358367959392f025ab2f4928357d83f496a04e16e543aa6fe64deea7e07f2874c8f39
333339315c6ef212b5f975b6e50d11b501008ec33e90f1a0a54a10a8364adbbca9d89be5bd35458022d7064ea29ab3":16:"010001"."SIG_RSA_SHA1:POLARSSL_MD_SHA1:1'2358097086c899323e75d9c890d0c09f12d9d54edbfbd70a9c2e
b5a04d8f369b92bdf2a0e0a5bda0b1a968979799d6ebed3b6b257ebf3136d413199db958e5260262a36c3d835494a1f4ee5c
18b226c80322363a75a45f6f09a7ea9e9efbde1450d1194bf12e15a4c5f9e5c5e25e269e0c3b28cfa56d558d8a16a10b4
be25f45499b25a0db94c52218be109a7426de830144247899a90e5056632a698115e282a156410f26c207219394a1
9dcd80572050e64f4082ecf";312ecf5958087ad47d7fcfcb3a04983a54c4b73";18da3dce3f79fb7f7dfc3f2f73a73d9914f00a8e8106022332
1a6ed3c84930315cde92dc79b55d3e11615aa056a795835792a3998c349ac54578ea7d729d796a2a483491709becf
b1510ea513c92829a300b104f6556534f3207521e130ec0c6754f5893db302322b025eb0e87822598f6e190e98173
7a9ac41523d3":0

RSASSA-PSS Signature Example 8_1 (verify)

pkcs1_rsassa_pss_verify:1030:16:"495370a1fb185146d16c316136516d3298115e282a156410f26c207219394a1
9dcd80572050e64f4082ecf";312ecf5958087ad47d7fcfcb3a04983a54c4b73";18da3dce3f79fb7f7dfc3f2f73a73d9914f00a8e8106022332
1a6ed3c84930315cde92dc79b55d3e11615aa056a795835792a3998c349ac54578ea7d729d796a2a483491709becf
b1510ea513c92829a300b104f6556534f3207521e130ec0c6754f5893db302322b025eb0e87822598f619oe981737a9ac41523d3":0

RSASSA-PSS Signature Example 8_1

pkcs1_rsassa_pss_verify:1030:16:"495370a1fb185146d16c316136516d3298115e282a156410f26c207219394a1
9dcd80572050e64f4082ecf";312ecf5958087ad47d7fcfcb3a04983a54c4b73";18da3dce3f79fb7f7dfc3f2f73a73d9914f00a8e8106022332
1a6ed3c84930315cde92dc79b55d3e11615aa056a795835792a3998c349ac54578ea7d729d796a2a483491709becf
b1510ea513c92829a300b104f6556534f3207521e130ec0c6754f5893db302322b025eb0e87822598f619oe981737a9ac41523d3":0

RSASSA-PSS Signature Example 8_1 (verify)

pkcs1_rsassa_pss_verify:1030:16:"495370a1fb185146d16c316136516d3298115e282a156410f26c207219394a1
9dcd80572050e64f4082ecf";312ecf5958087ad47d7fcfcb3a04983a54c4b73";18da3dce3f79fb7f7dfc3f2f73a73d9914f00a8e8106022332
1a6ed3c84930315cde92dc79b55d3e11615aa056a795835792a3998c349ac54578ea7d729d796a2a483491709becf
b1510ea513c92829a300b104f6556534f3207521e130ec0c6754f5893db302322b025eb0e87822598f619oe981737a9ac41523d3":0

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RSASSA-PSS Signature Example 8.2

pkcs1_rsa===========
013116:'08dad7f11363fa6a232d5d56e58a319328d82190d71272d8246c4390ab72619b0a43a 95320e4e34cf3a39ea8764220350bd6c5ba7be9e2f10c80606451a1d29edb":16:'0847e372377f7c900f898ea8e2ebbfcf4c818556fdaee2f7d9ec4c2e2217b97990d272db157f996f3c0dbb9f9acbd4d4cadadbdf67756358ca1474825bf4f9706d":16:'495370a1fb185431c63163255df62be6ee890df525509e4f778a8eaf6fbbbcf85df6e40d972003ab3681f8ba6d41f541829be582de9f2a4a0e40d20900be4f753db3cee0e067d7fa8e8b1d53b59532189f979ada0733f":16:'010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"e2f96ea0e05e7ba326eccc0a7f7d2fe023563f33e0d96a973e5595df9ea08":435c098a99099eb2377f1148f0916b8987f1838":2707bd9ad151c58c9e9328ec0a2f805f536339e44a15bd4dcdff2f31e5fcde9e9c69e9dceee8dbdaeb579ba4e0819a9e7b9fd99827eef668e6389b8e3a14c9f3f4b17eb74917f3d121091bf5c8172fada2e768f9ea1433032e004a8aa07eb990000a48de948bc8aabe2b09b1aa6c0a2a0e1263ffbb7a7b5e":0

RSASSA-PSS Signature Example 8.2 (verify)

pkcs1_rsa===========
013116:'09dad7f11363fafa6d235d5d65e58a319328d82190d71272d8246c4390ab72619b0a43a 95320e4e34cf3a39ea8764220350bd6c5ba7be9e2f10c80606451a1d29edb":16:'0847e372377f7c900f898ea8e2ebbfcf4c818556fdaee2f7d9ec4c2e2217b97990d272db157f996f3c0dbb9f9acbd4d4cadadbdf67756358ca1474825bf4f9706d":16:'495370a1fb185431c63163255df62be6ee890df525509e4f778a8eaf6fbbbcf85df6e40d972003ab3681f8ba6d41f541829be582de9f2a4a0e40d20900be4f753db3cee0e067d7fa8e8b1d53b59532189f979ada0733f":16:'010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"e35c6ed98f64a65a4684facab8d316331db32e5d1547a4a0ed943c24d4d4729d198089f920f1e24ed1205464b98798b4c12d458769b734d969373142092a27760f3743f4dcd1414658600ce06d4f6bf60536db2aef17fc7ec304fbbdbb907bf117c0863fa16f955f1a62169343ed34f5030f17bbbc5ba69144058aff081e00b1c0e03c171955c5e888ba5816fe0a02e5c3bd9719a7":b69c7b670d9674f3e3b57db69702d1668ab5953ee290356b8c4a29ed467d5474ec23ebad2f88eb5836c66797ada467fe9c324a0157e5cc5ac6d0b484f8272625cfe1aa42b1bce6409f42f2314869c2b52dc0304373c8d42827a57f5e":0

RSASSA-PSS Signature Example 8.3

pkcs1_rsa===========
013116:'09dad7f11363fafa6d235d5d65e58a319328d82190d71272d8246c4390ab72619b0a43a 95320e4e34cf3a39ea8764220350bd6c5ba7be9e2f10c80606451a1d29edb":16:'0847e372377f7c900f898ea8e2ebbfcf4c818556fdaee2f7d9ec4c2e2217b97990d272db157f996f3c0dbb9f9acbd4d4cadadbdf67756358ca1474825bf4f9706d":16:'495370a1fb185431c63163255df62be6ee890df525509e4f778a8eaf6fbbbcf85df6e40d972003ab3681f8ba6d41f541829be582de9f2a4a0e40d20900be4f753db3cee0e067d7fa8e8b1d53b59532189f979ada0733f":16:'010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"e35c6ed98f64a65a4684facab8d316331db32e5d1547a4a0ed943c24d4d4729d198089f920f1e24ed1205464b98798b4c12d458769b734d969373142092a27760f3743f4dcd1414658600ce06d4f6bf60536db2aef17fc7ec304fbbdbb907bf117c0863fa16f955f1a62169343ed34f5030f17bbbc5ba69144058aff081e00b1c0e03c171955c5e888ba5816fe0a02e5c3bd9719a7":b69c7b670d9674f3e3b57db69702d1668ab5953ee290356b8c4a29ed467d5474ec23ebad2f88eb5836c66797ada467fe9c324a0157e5cc5ac6d0b484f8272625cfe1aa42b1bce6409f42f2314869c2b52dc0304373c8d42827a57f5e":0

RSASSA-PSS Signature Example 8.3 (verify)
RSASSA-PSS Signature Example 8.4

pkcs1_rsa_sign:1031:16:"08dad7f11363faa623df5d6f5e5a8319328d82190d1727d2846c439b0ab72619b0a43a95320e4ec34fc3a9ceaa876422305bd67c5b5a7e9e2f4d10c8060645a1d29ed":"16:0847e7323767f9008f898ea2eb2b0cf418565fdaee2f7d9e94ce2217b97990dd272bd157f99963f0ddbeb9fbacbd4c4addb6f76755358ca1478425b48f49706d":"16:495370a1fb18f36136d315265df6e27ef11915649df5b9e27f91b79990dd272bd157f99963f0ddbeb9fbacbd4c4addb6f76755358ca1478425b48f49706d";

RSASSA-PSS Signature Example 8.4 (verify)

pkcs1_rsa_verify:1031:16:"08dad7f11363faa623d5c3a2d929700c3d5962055d4c98a14df66e992a3add5ff79979ab3c18f37505d25141de2a1bff7b17a37dce9419ecce385fc11d27840f19953df05092516c4de28930d07e5781ba7a5012ca41a0f49e04b3c3429f926d8ae82cfec87dad22c3c1b105de48e34ace9e1294e59597ac7ebff8":"021fddcc6ebb5e19b1b16e9e67f276b816757e5f0a":16:e24e6e582682e517044a9eb6db837d48af12606b050e87327de7879ee4d5b9f0db03e09ed4eae81454f3432bb0e18793245a9df86fa63968ecedd3b532857c7170901cc5787567912f1de6149de95454f0be1e1f63b5283b0e67ee76fa5f6e30eb45c17487ac04701d2c6b670fa2a7afddc8d24e5a3426a63000cc7:0
pkcs1_rsassa_pss_verify:1031:16:"495370a1fb18543c16d3613c163255df62b6e6ee890df5255094ef778a8eaf6fbbb
df85ddf64e0d972003ab3681fba6dd41fd541829be582de9f2a4eae0a2d9000febf7535d3bceee0e067fae8b1d53b59
53218f9cceeaa695b0b8668deaadeced9463b1d7905d5eb279115b46cad4d92ahef0ab5106b180344739ada0733"":16":
10001";"SIG_RSA_SHA1:POLARSSL_MD_SHA1:"04d251be72e88e5723485b638a3637e2f8e7f6605c195a560b
8e18b1ddbe68eae2364ea33ba9dca63e2b7d6bb0a42b3e877291ba4881d5b7f229c29a85e196edacb28f09889fda03
835b663c0f58ed819395dc6f02ec5d6e8c718317199462297fe":"c558df7167cb4508ada0294717e11737e4a269":
"3334a13ba503e0a25c867922438d5695f5acc235a95ad68e1ee3c1666d0ca71ada6d7f0a1aa76e20575
2a51950cd88af3c579f1f6e5b55a4648226ae15e912ef19ad77adeae911d67efcdef69ba43fa4119135f642117b9a
5a7e0100325e915f1ca6a09216bda557b585701212590e9d0cd07a0ca69376e":0

RSASSA-PSS Signature Example 8_6

pkcs1_rsassa_pss_verify:1031:16:"495370a1fb18543c16d3613c163255df62b6e6ee890df5255094ef778a8eaf6fbbb
df85ddf64e0d972003ab3681fba6dd41fd541829be582de9f2a4eae0a2d9000febf7535d3bceee0e067fae8b1d53b59
53218f9cceeaa695b0b8668deaadeced9463b1d7905d5eb279115b46cad4d92ahef0ab5106b180344739ada0733"":16":
10001";"SIG_RSA_SHA1:POLARSSL_MD_SHA1:"0ea37df9a6fea4a86b610373c24cf39020faef213c504008a3a4f5e183a7e8ea4e9ae090d3
1759f42dc77719caca400ecc51cfac76ac976026752eef3c05966f5332148262f699b957d01e10e845d0e850da24c
bf1cf0f714975a5db7b18d9e9e9b1b5c1686906ed187b56245503f0caf903528d8e1b8ca1d6c363902f0d":"76f
d4e64e4d98e9b27a0403e15a80e47e6929a":"1ed1d848f1bede44129bd35479597af9a70a6a900a0ed15101458958e0c7
2c3517ff9f2a41d0cb5a0ac860d736a1997047fcb6a5939a888db8a000c64762880031525449da2ace87536374
c536e343f9a7cbac245a560608779c06a8e898335aed19fbab2d567e6727ff0c2875a89f6c21b6e87309d0ae4f6727e
69463e":0

RSASSA-PSS Signature Example 8_6 (verify)

pkcs1_rsassa_pss_sign:1536:16:"f8eb97e98df12646eeefdb7675196a69dcd07e6daaee64d5b5f1b50ac8068f79284ad2
f8277a67e515b7d4a41988220b1c87a1af1c810e99a9f821dece827dcded79c4f941f24ca1a9084d28e75e6c085227
9f6154a762a6ed15d4d7ee367":16:"ed4d7f0d0a6e2b493c5e2f6b4b5fe5f5f0ba4f0d204fe33738d56c52f8886ad8dad7
e4e5f153ee4e40acc7b18f930020108994b9a4e54728d9c6e33735a49e5650b55ebf0ed8d655330272d82608a6
eb6489c716728092d2629e493d":16":"e6b692ac96975479504003df0ddf5e8bb99f29ed200017c360546419d060cc5b5
b2f48ecf989e4ce269109979cb40b4a0ad24d22483d1ee3154ad4cb1534268352691c524f6d86e2c2d4f5793ae
c8e6c5bfbb1401a850d51b91db8c0e47b06f08c7f45d3cf8f319229c5433db2b3053b47ded2edca4e4afed1483bd
b38b6f2f217d07860078e8d3e844800ade5e3a4e9140442f8b937072375e1d30e43613958135c6d4f5ac5b17a24
5230e931ba041545d58e4ea58":16":10001";"SIG_RSA_SHA1:POLARSSL_MD_SHA1:"a88e2658555e9d7ca36c
68795f0b31591ed6587c71d60a0b3f7f3efeaf4c375992208282b6a6d4e7f2df76595358aa70b7a3672dcede4cfe4970c

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RSASSA-PSS Signature Example 9.1 (verify)

pkcs1_rsassa_pss_verify:1536:16:"e68d692ac9664579043dd05fbb8b9b9f2ed10007fc365046419dd60cc5eb5b2f48e9c89e4c2691099799bba034d22ad4ceefc82540131e7a6154cb11354263852691c525d64ed629c22d429f549937ee5c65b5c6e5bfb6f1640185b1a9d1bb8checcecb7b06f0fe7f45fd3cf8f319299e5433ddbecb2305347be2ed2ead4acaeaefed614833c8eb622f317ed07b68057fe8e3f38448ad05e84e6a1904af42f8b9072757e5da03e463139815c6df4d5ac5b8172a45250ced6138a04f1455d48e8ab5b1695bf5990e9689648c1964747b6e899abac5ed85016236f566cc5802eb31ead51be7ca6be6cbf934dcbdb1bd570469777d9f0e00bf1a8a66777472d2316279ede86746468de1efeff951fe61c6020da32ee92bbf16520efefc4d88f68f1121f24bb9fe91b59cafc12352b9a39f81fe403addf4bdeab8e4934a9cdcf8e19ae9":0

RSASSA-PSS Signature Example 9.2

pkcs1_rsassa_pss_sign:1536:16:"f8eb79e98df126464efdb677195696a9ddccd7e6a76ade64db5f5ba5b50ac00867928a42df8726a7e515b7d4a199f28201c8ecta1f180ce99a82f2dc821edced794c694142c7a1a808e4d28c75ee60b52279f6154a76ed1a4749d3ee76":ed4d71d0a6fe4c0a9c3e56f6beb0e5f5b0afa04d204fc3376d56c28f88686a8dad7e59f45d3ee4f4ec0a7bb8f93f5344dd4f579800f20d5f484e6e5a2c68f1288c3f95006a32516d4d40f24a96eb320a6d6658a237b34e59d5f59799036a4ef2ed4d624a57e7dc1d7264f5a5930ed7e541ca2712eb60ca709e44fa066113e8d54163fd8d398566ce26ed8e78072793ca773661c24415942063702df0a18079d6208ea97904601b278872f513214a972f3650f703454dd5f75890e02df5d486e6a52c668f1288c3f95006a32516d4d40f24a96eb320a6d6658a237b34e59d5f59799036a4ef2ed4d624a57e7dc1d7264f5a5930ed7f541ca2712eb60ca709e44fa066113e8d54163fd8d398566ce26ed8e78072793ca773661c24415942063702df0a18079d6208ea97904601b278872f513214a972f3650f703454dd5f75890e02df5d486e6a52c668f1288c3f95006a32516d4d40f24a96eb320a6d6658a237b34e59d5f59799036a4ef2ed4d624a57e7dc1d7264f5a5930ed7f541ca2712eb60ca709e44fa066113e8d54163fd8d398566ce26ed8e78072793ca773661c24415942063702df0a18079d6208ea97904601b278872f513214a972f3650f703454dd5f75890e02df5d486e6a52c668f1288c3f95006a32516d4d40f24a96eb320a6d6658a237b34e59d5f59799036a4ef2ed4d624a57e7dc1d7264f5a5930ed7f541ca2712eb60ca709e44fa066113e8d54163fd8d398566ce26ed8e78072793ca773661c24415942063702df0a18079d6208ea97904601b278872f513214a972f3650f703454dd5f75890e02df5d486e6a52c668f1288c3f95006a32516d4d40f24a96eb320a6d6658a237b34e59d5f59799036a4ef2ed4d624a57e7dc1d7264f5a5930ed7f541ca2712eb60ca709e44fa066113e8d54163fd8d398566ce26ed8e78072793ca773661c24415942063702df0a18079d6208ea
RSASSA-PSS Signature Example 9.3

pkcs1_rsssa_pss_sign:1536:16:"f8eb97e988df12664eeefdb7675196a69d0cede76e64edf6b5a1b50a086f7928a42d2f872a7e75157b4da14988f20b1c87e49c8a1ec90f99212fde3edc7e94c9f4127e2a0f647b92fded10007c72566459994063f47779c4f72defea5670941396e5ea64f96319a5c8224145b54052678efdf1e3e049ae169259c6ddf65bf598213141a4ecebebde6c82c9e553e70a1fb47f80819efbf2708c34d27a8b2a6fae882b2924f13703919817184a88e10844ada7ec7f057f6e5bfa1593e18584373e1f7e74195d8c3820fecde3727fcbec295ee61a050a3436586373cfd659cb673763632d9f90d3c2f63eca:"

RSASSA-PSS Signature Example 9.4

pkcs1_rsssa_pss_sign:1536:16:"f8eb97e988df12664eeefdb7675196a69d0cede76e64edf6b5a1b50a086f7928a42d2f872a7e75157b4da14988f20b1c87e49c8a1ec90f99212fde3edc7e94c9f4127e2a0f647b92fded10007c72566459994063f47779c4f72defea5670941396e5ea64f96319a5c8224145b54052678efdf1e3e049ae169259c6ddf65bf598213141a4ecebebde6c82c9e553e70a1fb47f80819efbf2708c34d27a8b2a6fae882b2924f13703919817184a88e10844ada7ec7f057f6e5bfa1593e18584373e1f7e74195d8c3820fecde3727fcbec295ee61a050a3436586373cfd659cb673763632d9f90d3c2f63eca:"

RSASSA-PSS Signature Example 9.5 (verify)

pkcs1_rsa_pss_verify:1536:16:01001:

SIG_RSA_SHA1:POLARSSL_MD_SHA1:88c7a9f1360401d90e53b101b61c5325c3c75d4429291be6a50fe00bb989e14c62a99473e37494a359c4344a06274528e839691e7893eb7ec605c86397708071729ca21b15265b4ce76d38deb4e50

RSASSA-PSS Signature Example 9.6

pkcs1_rsa_pss_sign:1536:16:

SIG_RSA_SHA1:POLARSSL_MD_SHA1:88c7a9f1360401d90e53b101b61c5325c3c75d4429291be6a50fe00bb989e14c62a99473e37494a359c4344a06274528e839691e7893eb7ec605c86397708071729ca21b15265b4ce76d38deb4e50

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RSASSA-PSS Signature Example 10_1

pkcs1_rsassa_pss_sign:2048:16:"cfd50283feeebf97f6608d73c7bc7b386f8bf22cd499479f5e6f76fdce8b38c4f71de9c88d6a6f76371af6d562a1fb653b9b3b12043f4febe5a5f92baf75924481403f9e69b16d684ec5f3c2688babf46ed301ca14b08d36b5f64e15c87f8f98a80b186ec84252e52f751915c979bb9f285581da7510999cb37eb:"="cc4e90d2a13b9a06f3d21f58afe3c31b544475646eb5061d2971b99fb7be8f4e4ec1f360b682ac3859692971e6a3878733b211f5dbf1714a4fa3d5164d4d17f1b4e829986653c9b8369a148ed4242c0d31b3aa3822ea90a32e46c0308c1e171fa0ad3785960e6baa4bafa2e2233978690e315199e51da5e97c:"="a5dd867abe4b20904957d484ac8a770e991c567390ec65fd11a9837ecea7b7ae70c0176158962d22e18375660027d40f715e12f080900ef2a7adcedeeef7988ba4977e7a42d9c5a1b949e38779ed64a9a53d14485a6584e4654e47ec9eb4e227344071f2e57e590f5b0bed15fda06d6a1edae2b203047396279252e303ca50920fd04e604ee4a545c9473d8099f307e3ef1f887383d8d8df216d750a33e391900092070dfad1357cfe770ce367de38f7bbf177d8b381dce09eb44058a511001a738198e27cf5d5a1573545909665828e3cb749b55580e01cddcf2596b207df0d5741614ca03f13e750057307e17367e63295055b0ece01dfdd25746b27775755795299280b9b28f79b040900ebcb025bd9d608a3b43cc481864d1c8e62553fa1af4040f6663de7f5e49c04388e257f1ce89c55dab48a315db6661b767283376ff2385230d070d7e066e"="

RSASSA-PSS Signature Example 10_2

pkcs1_rsassa_pss_verify:2048:16:"a5dd867abe4b20904957d484ac8a770e991c567390ec65fd11a9837ecea7b7ae70c0176158962d22e18375660027d40f715e12f080900ef2a7adcedeeef7988ba4977e7a42d9c5a1b949e38779ed64a9a53d14485a6584e4654e47ec9eb4e227344071f2e57e590f5b0bed15fda06d6a1edae2b203047396279252e303ca50920fd04e604ee4a545c9473d8099f307e3ef1f887383d8d8df216d750a33e391900092070dfad1357cfe770ce367de38f7bbf177d8b381dce09eb44058a511001a738198e27cf5d5a1573545909665828e3cb749b55580e01cddcf2596b207df0d5741614ca03f13e750057307e17367e63295055b0ece01dfdd25746b27775755795299280b9b28f79b040900ebcb025bd9d608a3b43cc481864d1c8e62553fa1af4040f6663de7f5e49c04388e257f1ce89c55dab48a315db6661b767283376ff2385230d070d7e066e"="

RSASSA-PSS Signature Example 10_1 (verify)

pkcs1_rsassa_pss_sign:2048:16:"a83c7e8a59c17b036c255f73d3062c157b15be12f890090ee2a7adcedeeef7988ba4977e7a42d9c5a1b949e38779ed64a9a53d14485a6584e4654e47ec9eb4e227344071f2e57e590f5b0bed15fda06d6a1edae2b203047396279252e303ca50920fd04e604ee4a545c9473d8099f307e3ef1f887383d8d8df216d750a33e391900092070dfad1357cfe770ce367de38f7bbf177d8b381dce09eb44058a511001a738198e27cf5d5a1573545909665828e3cb749b55580e01cddcf2596b207df0d5741614ca03f13e750057307e17367e63295055b0ece01dfdd25746b27775755795299280b9b28f79b040900ebcb025bd9d608a3b43cc481864d1c8e62553fa1af4040f6663de7f5e49c04388e257f1ce89c55dab48a315db6661b767283376ff2385230d070d7e066e"="

RSASSA-PSS Signature Example 10_2
RSASSA-PSS Signature Example 10.6

pkcs1_rsa_sass_pss_sign:2048:16:"cfd50283feeeb97f6f08d773c7b3836f82bbcd4994795fe6f7fdcf8bb838ef71dc9e886f6a67f673f16f62a19591a76645e42d7b7ff70c1994bf7b1a6e1e3990f1a409a64e0f410f071712c7da1b5a354437f636d173b9d57a872593f10ea096f92a704c05e17c1a0f0ad37859e0660a63b1369bc6e02c233799679820a159135067917c9f610016":16"a5dd867ac4cb02f909457d48c14a770ef9f1c56c3930c065f1d01af8973eaca75b9be7a73b8450176158bb62d2e31875356027cf0d157f12180907fe2a7ad9dce0f77f988bad997c7a42d2e00a16e5d0a2d9234997450b341448ad5ae45e4ce79482223d73604072f10e577e950fbeb15d5af00f1da5e6253d36a3a120b31a5dab5950600e20f27d3739e2627925fe3a3cc509f21df04f6ea454549f5046d08f09fd07ee9f1ff5733d28385a237d6d3705a33e391900992070df7ad113757e3700ce36676883f77b34777b8d3821dce094a5d0a15101a7381998e72ce75f5a131b753455f10858288e175bd48df35f7673e67179210ae5":16"000101:SIG_RSA_SHA1:POLARSSL_MD_SHA1:"25f10895a87716c1374950bb9519dfaa1f207f09f7ead8be6f18bb8f495f759459c2987bcb7eece728a195aa66f6e072d32b5e95f573 me0611b1cf3e4063b9f81":0

RSASSA-PSS Signature Example 10.6 (verify)

pkcs1_rsa_sass_pss_verify:2048:16:"a5dd867ac4cb02f909457d48c14a770ef9f1c56c3930c065f1d01af8973eaca75b9be7a73b8450176158bb62d2e31875356027cf0d157f12180907fe2a7ad9dce0f77f988bad997c7a42d2e00a16e5d0a2d9234997450b341448ad5ae45e4ce79482223d73604072f10e577e950fbeb15d5af00f1da5e6253d36a3a120b31a5dab5950600e20f27d3739e2627925fe3a3cc509f21df04f6ea454549f5046d08f09fd07ee9f1ff5733d28385a237d6d3705a33e391900992070df7ad113757e3700ce36676883f77b34777b8d3821dce094a5d0a15101a7381998e72ce75f5a131b753455f10858288e175bd48df35f7673e67179210ae5":16"000101:SIG_RSA_SHA1:POLARSSL_MD_SHA1:"25f10895a87716c1374950bb9519dfaa1f207f09f7ead8be6f18bb8f495f759459c2987bcb7eece728a195aa66f6e072d32b5e95f573 me0611b1cf3e4063b9f81":0

BLOWFISH-ECB Encrypt SSLeay reference #1

blowfish_encrypt_ecb:"000000000000":0

BLOWFISH-ECB Encrypt SSLeay reference #2
blowfish_encrypt_ecb:"ffffffffffffffff":"ffffffffffffffff":"51866dfd5b85ecb8a":0

BLOWFISH-ECB Encrypt SSLeay reference #3
blowfish_encrypt_ecb:"3000000000000000":"7d856f9a613063f2":0

BLOWFISH-ECB Encrypt SSLeay reference #4
blowfish_encrypt_ecb:"1111111111111111":"246dd878b963c9d":0

BLOWFISH-ECB Encrypt SSLeay reference #5
blowfish_encrypt_ecb:"0123456789abcdef":"61f9c3802281b096":0

BLOWFISH-ECB Encrypt SSLeay reference #6
blowfish_encrypt_ecb:"1111111111111111":"7d0cc630afda1ec7":0

BLOWFISH-ECB Encrypt SSLeay reference #7
blowfish_encrypt_ecb:"0000000000000000":"4ef997456198dd78":0

BLOWFISH-ECB Encrypt SSLeay reference #8
blowfish_encrypt_ecb:"fedcba9876543210":"0aceab0fc6a028d":0

BLOWFISH-ECB Encrypt SSLeay reference #9
blowfish_encrypt_ecb:"0131d9619dc1376e":"b1b8cc0b250f09a":0

BLOWFISH-ECB Encrypt SSLeay reference #10
blowfish_encrypt_ecb:"07a1133e4a0b2686":"1730e5778bea1da":0

BLOWFISH-ECB Encrypt SSLeay reference #11
blowfish_encrypt_ecb:"3849674c2602319e":"a25e7856cf2651eb":0

BLOWFISH-ECB Encrypt SSLeay reference #12
blowfish_encrypt_ecb:"04b915ba43f6eb56":"353882b109ce8f1":0

BLOWFISH-ECB Encrypt SSLeay reference #13
blowfish_encrypt_ecb:"0113b970fd34f2ce":"48f4d0884c379918":0

BLOWFISH-ECB Encrypt SSLeay reference #14
blowfish_encrypt_ecb:"0170f175468fb5e6":"432193b78951fc98":0

BLOWFISH-ECB Encrypt SSLeay reference #15
blowfish_encrypt_ecb:"43297fad38e373fe":"13f041546d9d1ae5":0

BLOWFISH-ECB Encrypt SSLeay reference #16
blowfish_encrypt_ecb:"07a1137045da2a16":"2eedda93ffd39c79":0
BLOWFISH-ECB Encrypt SSLeay reference #18
blowfish_encrypt_ecb:"04689104c2fd3b2f":"26955f6835af609a":"d887e0393c2da6e3":0

BLOWFISH-ECB Encrypt SSLeay reference #19
blowfish_encrypt_ecb:"37d06bb516cb7546":"164d5e404f275232":"5f99d04f5b163969":0

BLOWFISH-ECB Encrypt SSLeay reference #20
blowfish_encrypt_ecb:"1f08260d1a2c4f65e":"6b056e18759f5ccca":"4a057a3b24d3977b":0

BLOWFISH-ECB Encrypt SSLeay reference #21
blowfish_encrypt_ecb:"584023641aaba6176":"004bd6e0f9176062":"452031c1e4fada8e":0

BLOWFISH-ECB Encrypt SSLeay reference #22
blowfish_encrypt_ecb:"025816164629b007":"480d39006ee762f2":"7555ae39f59b87bd":0

BLOWFISH-ECB Encrypt SSLeay reference #23
blowfish_encrypt_ecb:"49793ebc79b3258f":"437540c8698f3cfa":"53c55f9cb49fc019":0

BLOWFISH-ECB Encrypt SSLeay reference #24
blowfish_encrypt_ecb:"4fb05e1515ab73a7":"072d43a077075292":"7a8e7bfa937e89a3":0

BLOWFISH-ECB Encrypt SSLeay reference #25
blowfish_encrypt_ecb:"49e95d6d4ca229bf":"02fe55778117f12a":"cf9c5d7a4986adb5":0

BLOWFISH-ECB Encrypt SSLeay reference #26
blowfish_encrypt_ecb:"018310dc409b26d6":"1d9d5c5018f728c2":"d1abb290658bc778":0

BLOWFISH-ECB Encrypt SSLeay reference #27
blowfish_encrypt_ecb:"1c587f1c13924f0f":"305532286d6f295a":"55cb3774d13ef201":0

BLOWFISH-ECB Encrypt SSLeay reference #28
blowfish_encrypt_ecb:"0101010101010101":"0123456789abcdef":"fa34ec4847b268b2":0

BLOWFISH-ECB Encrypt SSLeay reference #29
blowfish_encrypt_ecb:"1f1f1f1f0e0e0e0e":"0123456789abcdef":"a790795108ea3caae":0

BLOWFISH-ECB Encrypt SSLeay reference #30
blowfish_encrypt_ecb:"e0fee0fef1ef1fe":"0123456789abcdef":"c39e0729fac631d":0

BLOWFISH-ECB Encrypt SSLeay reference #31
blowfish_encrypt_ecb:"0000000000000000":"ffffffffffff":"014933e0cdaa64e":0

BLOWFISH-ECB Encrypt SSLeay reference #32
blowfish_encrypt_ecb:"ffffffffffff":"0000000000000000":"f21e9a77b71c49be":0

BLOWFISH-ECB Encrypt SSLeay reference #33
blowfish_encrypt_ecb:"0123456789abcdef":"0000000000000000":"245946885754369a":0
BLOWFISH-ECB Encrypt SSLeay reference #34
blowfish_encrypt_ecb:"fedcba9876543210":"ffffffffffffff":"6b5c5a9c5d9e0a5a":0

BLOWFISH-ECB Decrypt SSLeay reference #1
blowfish_decrypt_ecb:"0000000000000000000000000000000000":0

BLOWFISH-ECB Decrypt SSLeay reference #2
blowfish_decrypt_ecb:"fffffffffffffff":"51866fd5b85ecb8a":"fffffffffffffff":0

BLOWFISH-ECB Decrypt SSLeay reference #3
blowfish_decrypt_ecb:"3000000000000000000000000000000000":"7d8569a613063f2":0

BLOWFISH-ECB Decrypt SSLeay reference #4
blowfish_decrypt_ecb:"111111111111111111111111111111111111":0

BLOWFISH-ECB Decrypt SSLeay reference #5
blowfish_decrypt_ecb:"0123456789abcdef":61f9c3802281b096":11111111111111111":0

BLOWFISH-ECB Decrypt SSLeay reference #6
blowfish_decrypt_ecb:"11111111111111111":7d0cc630afda1ec7":0123456789abcdef":0

BLOWFISH-ECB Decrypt SSLeay reference #7
blowfish_decrypt_ecb:"0000000000000000000000000000000000":0

BLOWFISH-ECB Decrypt SSLeay reference #8
blowfish_decrypt_ecb:"fedcba9876543210":4ef997456198dd78":0000000000000000":0

BLOWFISH-ECB Decrypt SSLeay reference #9
blowfish_decrypt_ecb:"7ca110454a1a6e57":59c68245eb05282b":01a1d6d039776742":0

BLOWFISH-ECB Decrypt SSLeay reference #10
blowfish_decrypt_ecb:"0131d9619dc1376e":b1b8cc0b250f09a0":5cd54ca83def57da":0

BLOWFISH-ECB Decrypt SSLeay reference #11
blowfish_decrypt_ecb:"07a1133e4a0b2686":1730e5778bea1da4":0248d43806f67172":0

BLOWFISH-ECB Decrypt SSLeay reference #12
blowfish_decrypt_ecb:"3849674e2602319e":a25e7856cf2651eb":51454b582df440a":0

BLOWFISH-ECB Decrypt SSLeay reference #13
blowfish_decrypt_ecb:"04b915ba43feb5b6":3538822b109ce8f1a":42fd443059577fa2":0

BLOWFISH-ECB Decrypt SSLeay reference #14
blowfish_decrypt_ecb:"0113b970fd34f2ce":48f4d0884c379918":059b5e0851cf143a":0

BLOWFISH-ECB Encrypt SSLeay reference #15
blowfish_encrypt_ecb:"0170f175468f5e6":0756d8e0774761d2":432193b78951fc98":0
BLOWFISH-ECB Decrypt SSLeay reference #32
blowfish_decrypt_ecb:"ffffffffffffffff":"f21e9a77b71c49bc":"0000000000000000":0

BLOWFISH-ECB Decrypt SSLeay reference #33
blowfishDecrypt_ecb:"0123456789abcdef":"245946885754369a":"0000000000000000":0

BLOWFISH-ECB Decrypt SSLeay reference #34
blowfishDecrypt_ecb:"fedcba9876543210":"6b5c5a9c5d9e0a5a":"ffffffffffffffff":0

BLOWFISH-SETKEY Setkey SSLeay reference #1
blowfish_encrypt_ecb:"f0":"fedcba9876543210":"":POLARSSL_ERR_BLOWFISH_INVALID_KEY_LENGTH

BLOWFISH-SETKEY Setkey SSLeay reference #2
blowfish_encrypt_ecb:"f0e1":"fedcba9876543210":"":POLARSSL_ERR_BLOWFISH_INVALID_KEY_LENGTH

BLOWFISH-SETKEY Setkey SSLeay reference #3
blowfish_encrypt_ecb:"f0e1d2":"fedcba9876543210":"":POLARSSL_ERR_BLOWFISH_INVALID_KEY_LENGTH

BLOWFISH-SETKEY Setkey SSLeay reference #4
blowfish_encrypt_ecb:"f0e1d2c3":"fedcba9876543210":"be1e639408640f05":0

BLOWFISH-SETKEY Setkey SSLeay reference #5
blowfish_encrypt_ecb:"f0e1d2c3b4":"fedcba9876543210":"b39e44481bd1e6e":0

BLOWFISH-SETKEY Setkey SSLeay reference #6
blowfish_encrypt_ecb:"f0e1d2c3b4a5":"fedcba9876543210":"9457aa83b1928c0d":0

BLOWFISH-SETKEY Setkey SSLeay reference #7
blowfish_encrypt_ecb:"f0e1d2c3b4a596":"fedcba9876543210":"8bb77032f960629d":0

BLOWFISH-SETKEY Setkey SSLeay reference #8
blowfish_encrypt_ecb:"f0e1d2c3b4a59687":"fedcba9876543210":"e87a244e2cc85e82":0

BLOWFISH-SETKEY Setkey SSLeay reference #9
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778":"fedcba9876543210":"15750e7a4f4ec577":0

BLOWFISH-SETKEY Setkey SSLeay reference #10
blowfish_encrypt_ecb:"f0e1d2c3b4a596877869":"fedcba9876543210":"122ba70b3ab64ae0":0

BLOWFISH-SETKEY Setkey SSLeay reference #11
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a":"fedcba9876543210":"3a833e9afffc537f6":0

BLOWFISH-SETKEY Setkey SSLeay reference #12
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b":"fedcba9876543210":"9409da87a90f6bf2":0

BLOWFISH-SETKEY Setkey SSLeay reference #13
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b3c3e":"fedcba9876543210"":"884f80625060b8b4":0

BLOWFISH-SETKEY Setkey SSLeeay reference #14
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b3c2ed":"fedcba9876543210"":"1f85031c19e11968":0

BLOWFISH-SETKEY Setkey SSLeeay reference #15
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b3c2d1e":"fedcba9876543210"":"79d9373a714ca34f":0

BLOWFISH-SETKEY Setkey SSLeeay reference #16
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b3c2d1e0f":"fedcba9876543210"":"93142887ee3be15c":0

BLOWFISH-SETKEY Setkey SSLeeay reference #17
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b3c2d1e0f00":"fedcba9876543210"":"03429e838ce2d14b":0

BLOWFISH-SETKEY Setkey SSLeeay reference #18
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b3c2d1e0f0011":"fedcba9876543210"":"a4299e27469ff67b":0

BLOWFISH-SETKEY Setkey SSLeeay reference #19
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b3c2d1e0f001122":"fedcba9876543210"":"af5d5edc1bc696a8":0

BLOWFISH-SETKEY Setkey SSLeeay reference #20
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b3c2d1e0f00112233":"fedcba9876543210"":"10851c0e3858da9f":0

BLOWFISH-SETKEY Setkey SSLeeay reference #21
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b3c2d1e0f0011223344":"fedcba9876543210"":"e6f51ed79b9db21f":0

BLOWFISH-SETKEY Setkey SSLeeay reference #22
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b3c2d1e0f001122334555":"fedcba9876543210"":"64a6e14af3d6b46f":0

BLOWFISH-SETKEY Setkey SSLeeay reference #23
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b3c2d1e0f00112233455666":"fedcba9876543210"":"80c7d7d45a5479ad":0

BLOWFISH-SETKEY Setkey SSLeeay reference #24
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b3c2d1e0f001122334556677":"fedcba9876543210"":"05044b62fa32d80":0

BLOWFISH-SETKEY Setkey SSLeeay reference #25
blowfish_encrypt_ecb:"f0e1d2c3b4a5968778695a4b3c2d1e0f0011223345566778":"fedcba9876543210"":"2fb3ab7f0ee91b69":0

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BLOWFISH-SETKEY Setkey 456 bits
blowfish_encrypt_ecb:"f0fe1d2c3b4a5968778695a4b3c2d1e0f001122334455566778899aabbccddeeff0123456789abc
def0102030405060708090a0b0c0d0e0ffffff":"fedcba9876543210":"";"POLARSSL_ERR_BLOWFISH_INVALID_KEY_LENGTH"

BLOWFISH-CBC Encrypt
blowfish_encrypt_cbc:"0123456789ABCDEF01ED2C3B4A59687";"FEDCBA9876543210";"37363534333231204E6f77206973207468656206666f722000000000";"6b77b4d63006dee605b156e27403979358deb9e7154616d959f1652bd5f92cc":0

BLOWFISH-CBC Decrypt
blowfish_decrypt_cbc:"0123456789ABCDEF01ED2C3B4A59687";"FEDCBA9876543210";"37363534333231204E6f77206973207468656206666f722000000000";"";"POLARSSL_ERR_BLOWFISH_INVALID_INPUT_LENGTH"

BLOWFISH-CFB Encrypt
blowfish_encrypt_cfb64:"0123456789ABCDEF01ED2C3B4A59687";"FEDCBA9876543210";"e73214a2822139caf26ef62eb9e76e3da3e0d1517200519d57a6c3":0

BLOWFISH-CFB Decrypt
blowfish_decrypt_cfb64:"0123456789ABCDEF01ED2C3B4A59687";"FEDCBA9876543210";"e73214a2822139caf26ef62eb9e76e3da3e0d1517200519d57a6c3":"";"";"POLARSSL_ERR_BLOWFISH_INVALID_INPUT_LENGTH"

BLOWFISH-CTR Encrypt
blowfish_encrypt_ctr:"0123456789ABCDEF01ED2C3B4A59687";"FEDCBA9876543210";"e73214a2822139ca60254740dd8c5b8acbf5e9569c4affeb944b8fc020e":0

BLOWFISH-CTR Decrypt
blowfish_encrypt_ctr:"0123456789ABCDEF01ED2C3B4A59687";"FEDCBA9876543210";"e73214a2822139ca60254740dd8c5b8acbf5e9569c4affeb944b8fc020e":"";"";"POLARSSL_ERR_BLOWFISH_INVALID_INPUT_LENGTH"

GCM NIST Validation (AES-128,128,0,0,128) #0
gcm_encrypt_and_tag:"1014f74310d1718d1cc8f65f033aaf83":"";""6bb54c9fd83c12f5ba76cc83f7650d2e":"";""128:06b657db309eff920c8133b8691e0cac":0
GCM NIST Validation (AES-128,128,0,0,128) #1
gcm_encrypt_and_tag:'d874a25f2269e352cced83cc2d4e45b7';":"':"9717abb9ed114f2760a067279c3821e3":"':":128:"0e09e53e5fe8d818c5397c51173eda97":0

GCM NIST Validation (AES-128,128,0,0,128) #2
gcm_encrypt_and_tag:'7db77e23b901c926454f92767eb62d4';":"':"8aaec114a40f053d7f40badd31a63e27":"':":128:"cec2e3230d8b62acee527e184e4c0db":0

GCM NIST Validation (AES-128,128,0,0,120) #0
gcm_encrypt_and_tag:'2397f163a0cb50b0e8c85f909b96ade1';":"':"97a631f5f6fe928ffce32ee2e92f5e50":"':":120:"3b74cca7bedc07c8f8d4818de714f2":0

GCM NIST Validation (AES-128,128,0,0,120) #1
gcm_encrypt_and_tag:'a7adc03aacef42397bca79dd65dbdf';":"':"c6d3114c1429e37314683081d484c87e":"':":120:"d88141d27e1748919845cfa5934bc":0

GCM NIST Validation (AES-128,128,0,0,120) #2
gcm_encrypt_and_tag:'10171805d7f7a6d87b64bda57474d7f6c';":"':"fad65b50c407c4b0c83c7a6720eacb8":"':":120:"c33df240d3f3a317eae42a338bccc":0

GCM NIST Validation (AES-128,128,0,0,112) #0
gcm_encrypt_and_tag:'8aaa0c85d214c6c9e9e26062f695827';":"':"84e25c916f38ddf6f732c0f6d8f86bb":"':":112":"a774815a2a8432ca891ef4003125":0

GCM NIST Validation (AES-128,128,0,0,112) #1
gcm_encrypt_and_tag:'def8b6a58b8e582e57700bab4f2aa4109';":"':"3615439e9fb777439eb814256e894fb2":"':":112"':"537be9c88d3a46845e6cf5f91e11":0

GCM NIST Validation (AES-128,128,0,0,112) #2
gcm_encrypt_and_tag:'5894231d743f963867c070b60beee1';":"':"e34cd13b897d1c9b8011a0e63950e099":"':":112":"d582c4bc083a8cf1af4d5c2e9b11":0

GCM NIST Validation (AES-128,128,0,0,104) #0
gcm_encrypt_and_tag:'6b25f9c9c3bc0d27d245a1c411594bc';":"':"a6526f8c803699dd5f59feca1cf78e2":"':":104"':"c7e19e08a99e1fa698202890":0

GCM NIST Validation (AES-128,128,0,0,104) #1
gcm_encrypt_and_tag:'b3235422897b6459798a97dd709db3d';":"':"96679e9362f919217d5e64068969d958":"':":104":"44ed41bda0eb958d407b7b787":0

GCM NIST Validation (AES-128,128,0,0,104) #2
gcm_encrypt_and_tag:'f65bc795434efb3a3c5399ed3c99ff045';":"':"2e727c19a89caba6f9c04d990245fceed":"':":104":"64830ed7f772e898800fc9ae2a":0

GCM NIST Validation (AES-128,128,0,0,96) #0
gcm_encrypt_and_tag:'c6c66d50f2f76c4e911b3b17fcdcb1a';":"':"77b42158a4ef5dc33039d33631bb0161":"':":96":"1bce3ba33f73e750ab284d78":0
GCM NIST Validation (AES-128,128,0,0.96) #1
gcm_encrypt_and_tag:"13558db9b7441ec585d381ffe16b32517":"";"addf5dbe0975c5ad321e14dd4bdc2ad2":"";".96":"f413c3bf125e5317cd1c6bd":0

GCM NIST Validation (AES-128,128,0,0.96) #2
gcm_encrypt_and_tag:"7463862b1361c2954ce0ac5456a1155":"";"c5861507c879e6864d7cbf77cc55cc6":"";".96":"8a514fde783571le4f458199":0

GCM NIST Validation (AES-128,128,0,0.64) #0
gcm_encrypt_and_tag:"7815d22e5c081df9ac2114aa2ec0cbf9":"";"822f83cd9f249dfc204b5957f0b0deab":"";".64":"aa16f9f5d3bb79e5":0

GCM NIST Validation (AES-128,128,0,0.64) #1
gcm_encrypt_and_tag:"1a847a47823cb9e298e4107c6aaff95e":"";"39348f80c6be489f9315be7a6fcb96f":"";".64":"c3bf3e56cf4895":0

GCM NIST Validation (AES-128,128,0,0.64) #2
gcm_encrypt_and_tag:"16f677a248ea6db08af1d810cb10574e":"";"50386e2075eb15ca3f3e6db6bfff01969":"";".64":"3d4f3b8526a376ae":0

GCM NIST Validation (AES-128,128,0,0.32) #0
gcm_encrypt_and_tag:"26a8301636ba93e7f5630913f184241":"";"c7e32b1d312971bdc344eafaf45461bc":"";".32":"25f1b41c":0

GCM NIST Validation (AES-128,128,0,0.32) #1
gcm_encrypt_and_tag:"130a07c467067148da279090d73fff32":"";"800b81e9d2ff3a8e15690fbb4117e211":"";".32":"abcc8d71":0

GCM NIST Validation (AES-128,128,0,0.32) #2
gcm_encrypt_and_tag:"ccfaae59c3196b8c403716424ea601f5":"";"f9b059de0efa4e3f64763d63d098410":"";".32":"8933444f":0

GCM NIST Validation (AES-128,128,0,1024,128) #0
gcm_encrypt_and_tag:"b8eebdfdb23360f2d1d1ee3c1ddbefb":"";"81a8494f85be6357d7e5663789162494":"f9efbf242b616a42e2057ed3b5b64ce27349fed148817a710654de75d1cfc5f6304709b46ef1e2ccbc42f877c50f484f8a8c6b0a25cffe61d9537c3f0c69bc6ef21bec8e896c9b6e87963b8d9db917134afe69d3d9dec3a76bc645f9c5528968f27399cc9e89d589369e90bfbefb249e3fa14651bc3d6592c5fefbd76":".128":"159a642185e0756d46f1db57af975fa3":0

GCM NIST Validation (AES-128,128,0,1024,128) #1
gcm_encrypt_and_tag:"c455aa8fe5d534912e65f4faed5857":"";"5e515f7194b0d0a17b9a0c234d609443":"a3f8d705b233b574399f72350b256c4b893e130688913ce3def8e44687688c0352ff987ae355c53bc95c9deb9cdec66e6e2802659daa1a838f26392ab6e9b043bc1b43e8123e84eb7e08884f2463c32b55e5b859fb1091859a72a416cfdf935e49fd0d721612720d46a946487b525779f6ce0ab0f4fc560835119b7427d2":".128":"9959a6d879cd7a949fa08e95d2b76c69":0

GCM NIST Validation (AES-128,128,0,1024,128) #2
gcm_encrypt_and_tag:"744b9e1692dd8974d7dec349ebd7fe1e8":"";"62ad4b09fd554e0d6b3973839e693e5b":"6f9978f7078f0030c45caf49128f729343a208a2398d0d132239f3ab5c184708e4222ec9cdce69dc86d1700c2fe0a939454fbb
GCM NIST Validation (AES-128,128,0,1024,32) #0
gcm_encrypt_and_tag:"247d3abeb807be959e68b40a3750045":";";"3f5f39cd79f21fb4c59f0db05a8a62f;";"81abf375da7157a1a5a6068d901837fcbeb72969db1771ae54ae030aba4db9767eff818de7147980b2c1b005e3e36b3e3abf1092edef6fd875d2903d73612addf206ae6a65886421059c7909a0e63319792bed649901fed62fd20d30d81a6f090f50d9f59290528e58a0b7412ace0a293369f2b4c87d2c2f0e1e32fd5f":";";"37bb4857;0

GCM NIST Validation (AES-128,128,0,1024,32) #2
gcm_encrypt_and_tag:"622be8cd3c757de00fbb7a4563ec14":";";"16ec5a843b1549716d7c06b141861862;";"a15df01580d549f2401btf6e0837248728505c9109d2d629d6e6cb6f765049b1f8059309132b4075f52545fe37152f889f997b36aacf356712fc08db3343054b2e08e8a12d47e0199b8ffec3c921d3b89c1d12d4adc61f6033a83ef6a84762304f1903553748b13b1647e96e88702e0bb41ceeac4d9efcecb177c453277f2;";"35778596;0

GCM NIST Validation (AES-128,128,1024,0,128) #0
gcm_encrypt_and_tag:"ce0f8ce9f9646c4f4c4045d11b97c2d918;";"d720cb31e841480da5ba656e993f066;";"d979af3e395b0f48d62d9608ac1a2a43590299980637e2919ed3894404d70e0310980cdece7273cc91725ce7271b12df69237998b07d789b3993aaac8d4ec4ec1914432a03f1572f79eaa0539bd417036d437e5170bc63039a5280816c05e1e41760b58e35696c6ebd55;";"ad4c3627a949fc628316dec03fa8fd18b8;";"0de73d9702d9357eqe8619b7994e40732a2c1d3f31bf2ad7f76ac91f497900d3ec6d26028d134ec7ac4d1f9895b2a3aaede8d1b24e9ec53eb5edc7210a4a0643f3750138b8914d754d43bce416fece7979e3ddd03949aced34def766bed6ba41a4cf30d2096893aad181f1b6dfc76ca25c87eb1c7459ce9f95dkd58;";"5f6a3620e5f9e8f7977865f02dd0da7517;0

GCM NIST Validation (AES-128,128,1024,0,128) #2
gcm_encrypt_and_tag:"ce0f8ce9f9646c4f4c4045d11b97c2d918;";"d720cb31e841480da5ba656e993f066;";"d979af3e395b0f48d62d9608ac1a2a43590299980637e2919ed3894404d70e0310980cdece7273cc91725ce7271b12df69237998b07d789b3993aaac8d4ec4ec1914432a03f1572f79eaa0539bd417036d437e5170bc63039a5280816c05e1e41760b58e35696c6ebd55;";"ad4c3627a949fc628316dec03fa8fd18b8;";"0de73d9702d9357eqe8619b7994e40732a2c1d3f31bf2ad7f76ac91f497900d3ec6d26028d134ec7ac4d1f9895b2a3aaede8d1b24e9ec53eb5edc7210a4a0643f3750138b8914d754d43bce416fece7979e3ddd03949aced34def766bed6ba41a4cf30d2096893aad181f1b6dfc76ca25c87eb1c7459ce9f95dkd58;";"5f6a3620e5f9e8f7977865f02dd0da7517;0

GCM NIST Validation (AES-128,128,1024,0,120) #0
gcm_encrypt_and_tag:"3f5f39cd79f21fb4c59f0db05a8a62f;";"81abf375da7157a1a5a6068d901837fcbeb72969db1771ae54ae030aba4db9767eff818de7147980b2c1b005e3e36b3e3abf1092edef6fd875d2903d73612addf206ae6a65886421059c7909a0e63319792bed649901fed62fd20d30d81a6f090f50d9f59290528e58a0b7412ace0a293369f2b4c87d2c2f0e1e32fd5f":";";"37bb4857;0

GCM NIST Validation (AES-128,128,1024,0,120) #2
gcm_encrypt_and_tag:"3f5f39cd79f21fb4c59f0db05a8a62f;";"81abf375da7157a1a5a6068d901837fcbeb72969db1771ae54ae030aba4db9767eff818de7147980b2c1b005e3e36b3e3abf1092edef6fd875d2903d73612addf206ae6a65886421059c7909a0e63319792bed649901fed62fd20d30d81a6f090f50d9f59290528e58a0b7412ace0a293369f2b4c87d2c2f0e1e32fd5f":";";"37bb4857;0
GCM NIST Validation (AES-128,128,1024,0,120) #1
gcm_encrypt_and_tag:"d5c63757197a132cb33351fd2d81a46":"e970b62ce5f06b15f8448aa2a095c2b38adf535e1107f374411ed5f1a1999f926045f7967c7db5a942b6a1981171ae59f27150560dca5a54abf014bab51c1ee82bb54d03be22d9dc2bb9a2e708503b85e2479b24509a033ae825b4f23ca377e280e3c97c0df79397a1f8f3da4b4d1eae3e788470cede86734a1058b1e3a":"a669a4d2f481f9a0b9ed1e1b6feee911":"522b7220fd0dfe7aba9ca74ad8a6f96ab337f17a7ac49d2618490918ba325d2f66d90a81bd1c7ada01c65894f14a074ceu311f7b2000542038aee55850056a3dda04f58fcd7269085f5ad1ef17c7be640804127f14747a2ad93ec31fada83663af025a3b90c20a4ae415b1e960095e4fd57db0d93a8edccee64f72d":"7bfce3ce8e513a89a5e51480b94f411":0

GCM NIST Validation (AES-128,128,1024,0,120) #2
gcm_encrypt_and_tag:"f380d3bf0d55a1cd56b7e78359eb666":"c0e977e91c9150ce078d4a56c527b2d31a141f261aa77e52d910ff230de49095c8bce6ac10270edefd484104ec13792371932e45b6e4b5f2d12df5fd400ff892b74095a34a2b9000ac2c40666a2305343b8c09f8990ec0e25bbee2a39b1462410180f2025962eced3dcf5d36fcf5331b291eca45b159e22":"ba3300f3a01e07d7e108343010344d":"752f60b518616a91a082cf181532ce7eeb54c59c1hbab3860f0000019971aa5be88345325c5ffac8720767d4c6eb23b2f4df9d317882885209972014e787717bedc6e1f6ec9e8a27274531863404a5e289eb1880207ae6a01262e6e18e69ad7573ef70318e2b22c75c7cf7bf22328255a5d709c15e4e8f14e2bf81e4":"7bf8818aaee5c71ebdfb0bced96a7a":0

GCM NIST Validation (AES-128,128,1024,0,112) #0
gcm_encrypt_and_tag:"47807c1d1c181104a4e3b1d94659db8":"ca452c1ff0d3c21bf85b2a21db3b58b332e066c7893c5662e859efde99c067b6167c0db4058a8ed53d10689d09090f06b0440309791be0480b2eeec1e10909cfece02af59d69069f5bf8b6b21aaead5a99b1b4016a7b2505cdac6ae85688af0641245d51a38d42a917696e1ba7a0341363f010eaf2d6683ecd82f":"9963a3bf156beaedc6dd88c15e8329df":"e784aab006de8a52d610dc4b3e7680d18457c5e3cdd777cb2475ad4ab1d5c2b98282de5c1f545b1b14ea5f9ba5b5474e8a331d79564acb2acb1859df46e9019fb806f054c81fdaf6e8adcb85c9e99f24760b737e5376ec94970cb87159995777543283ac42146903840af36d1e06961615d1b9e75ede13db1d20c1fd1f":"112":"51e8e23f415a39be5991a7a925b":0

GCM NIST Validation (AES-128,128,1024,0,112) #1
gcm_encrypt_and_tag:"ad4deee18e6c19433ad52021164f8afbb":"a30044582dac57332b04402e993831d0a4c1364a8386f9e57353979b444d1b3f47e2e933457f21f93e94a38a85457f9eed9e9a9f886734df6e2418f65138055ad8eb5d304044ed658e3a13b1651996e862f2a226558dc4b5168d5f9149bb5a40d2bd7d59ec95e9df05358c89e8635792ad20c73c1747199b28c7358":"112":"6a18a4f8800ce9e6796e1086ed05b":0

GCM NIST Validation (AES-128,128,1024,0,112) #2
gcm_encrypt_and_tag:"e4030ca8f4132bfba4f6600e36f56777":"a8e9fe2b488002d2099c9d5f1935b3573b7fc5156ce1c327395174d989beb57411f867332271ced525db2959dabe3ba3968070354edc2421fafaeb6ab76a8aa80ab60972a9ba999f858d4918572e84ed0d74caaba87727c738617459b11956db2687a2e37d9ad117d612d7b16b0b54714d548cedafe3cdef0f26e6459a01f4d3f":"975df9e932a46d547677af8ae6c9ec3":"86b20f0ecebc4f288a6a382d9639117cd2a3e9ebab747bfa5f5df1d35e341d04d8f8e6694b92552e347da676bc8d335398e49672a509f5208ce10a2a9232478417947f85f1
GCM NIST Validation (AES-128,128,1024,0,64) #1
gcm_encrypt_and_tag:"62777676b0ce9b7b070a88f11a13484550":"1daa4a24bf12538a724f62b277410d50e918bd6224d4a61df6bf77340034631491e81b08a48f515e20412622d15117f5defc800c319c91e974884044923c5239655973703e689f6d683eb797fcb3874c819d086769d2692f2da2f83a224498e9e204b5ee58a":"1307c0de0f69ba5570e9781fca04af577":"479e88f56b9b2f526a96c7597903e7623915f9452506c15d71a1887457080f33451e8378ad2189bf54d64a91733e7a5df107d1ebcc556edd89046d4b32506edc7f298c6b310ce2972dd443ded77c719d64c90555544391f1f83217a5de36edf036a3bb640d0212653899629193080d38aff0d4e8ae6c68d8f48b44f":"ca192f153aa5bf7":0

GCM NIST Validation (AES-128,128,1024,0,64) #2
gcm_encrypt_and_tag:"7d09f19091d377465727a429b98d53301":"056efe29cf029f0210cc9f5fb2e677bb811e366b9e4910c00b36e485ed2473f8b3fd1a08a2e6d4cde44efe00b70e10cf089396aa8b8db3b0d9be6949195e19b7f2f986666b366f0311d4774c0f4a3b84a34429abf6868b895433792d23b3b84f0df3d86e0f972a27f9b0589b8bcb2b":"58a5b6b77f4f884ee00d85ca66fad59a":"2e2760c649f917c1b4ba92b1f9b87d149af9c831f0dd0fe125b6c7fd0520473f3a7f2c716533d199a77e05e2580351d5581b8a84a840022391072e829e85297c11740f27d15113e86a4ff4ac6f6b363428930fe37e0e698387954166e67c897849187317c6b8f72e68f0b0bdf55660599917266bf2890ae8745ed14888989397e73de444524618512f65ce4b278f8e11f0b0de22da7248f3ef6ebb82b1c08259970714de39ea1114f85a":"6006e48f74f30bc46c76c":0

GCM NIST Validation (AES-128,128,1024,0,64) #3
gcm_encrypt_and_tag:"baca83044f9d88fcdf24766644137c533":"a72daba9de96bc03b5ed7449e297c858385475127b9614ee37c1972255d7855359fb911239939c88a484551c20412622d15117f5defc800c319c91e974884044923c5239655973703e689f6d683eb797fcb3874c819d086769d2692f2da2f83a224498e9e204b5ee58a":"1307c0de0f69ba5570e9781fca04af577":"479e88f56b9b2f526a96c7597903e7623915f9452506c15d71a1887457080f33451e8378ad2189bf54d64a91733e7a5df107d1ebcc556edd89046d4b32506edc7f298c6b310ce2972dd443ded77c719d64c90555544391f1f83217a5de36edf036a3bb640d0212653899629193080d38aff0d4e8ae6c68d8f48b44f":"ca192f153aa5bf7":0
Open Source Used In HyperFlex HX Data Platform 5.0 (1a)
57a2e158f0c0993c16dbf50582371100a8d7c55cd47e034735770ad562240f754e999d5e93dca284":"4ab633349 ";

GCM NIST Validation (AES-128,128,1024,1024,32) #1
gcm_encrypt_and_tag:"b7b52fe74c5c3266ed713f758728d2a7e":"014b7da57c0f79aa51283004b23f899669dcd6d 
beacz9c6de747c7adb525432c7c29d1411ece1df4e5e3331ad482418075dabe1773ce9511ce7950f08bb18eff56bd452b3 
34555a1a03c0aa8317d17c7bf9aebdb3cb652d94e06bd0a9b8b06d30b5064d1cb516ce759f6df71793472e6d6d69eae50c0fd3c 
8b1ad3d0517c4f55aa3":"aaa05750e98c8e68a236868fa0af015ba":"805ef636f59d847608c242ee23a4837dd3f260ded9 
afde166b08164a0256200be9b5e25259a4a54186ee067ddad905c4f92adfd7ce4f2d443312ba3c48186b6f4439a0264 
4e55467045071aa2cc7399a94e08ee5c258a53623bc6473bfe843ae0f00149b2ce153a6540a06d2c5b6b8a2b5d791 
078deed1de3bf548257c5":"d6124da0896d999c712c3688fca164f8feced75b6260162ecdc2d72737cc75f4c1a87c5799 
8e0a7e49cc715ad6a04a7c415f8dbd41f10353da02ed744354d74e5bca9c4f2f02f56ba885d5c747f7e777225e18f2149da 
22b53e6584823dbda42cd2dda567c72b573f9323c44ebe5c656515dd824ad80cc878152226ed8c1808db":"60d8d628 
7":0

GCM NIST Validation (AES-128,128,1024,1024,32) #2
gcm_encrypt_and_tag:"7a3501d9db8b8ab086f5fafaee88767bc7":"4f0dfb62aae780814a1f261a1fe4e4242eacf5fd267fd 
0c0f39375919810f66f11013f1bb422207acc41f70fa01ab01797683ce9267691a0dec450335f7c5bdfcadf1f154f99e6140 
176eaa2503b3f6f5e6f5dafa5d05f802e0a8f01e49a8b32a50ec028f2bc7aa451be3747d10b96b3a1105c67c5167eccdc 
18b4a9b6012d03":"6d59be1833e75e7f54ddc9a1d6f5187":"3e5556b1b33c42f1ad6cc67da6e3fh9d6c66672573358 
5e8e2ebc4f6ad8503ce415968b97d2d79a3f80e1a10d75174eb5294ec8898224eb7dfb25f8bf17c5db79a194ace6 
e94cd2f2cafe3fec8adc4e2264fa2db263564e3e8667393a77a0afc36be678d5ca4b6e3ea82d9922b2beb60559f331e 
ec9947be67494694":"615aa45355f1e5797da45e011081f272ce2343ea9e2d102cafa4437c41e64bdef7a211e4ad85 
bdb656215e609011435e9e8da8e239e4782ced7e7ad063f335bc62b859d9ae4edd1b9159081185cf054ead08257 
b0a97632e8c503c6219294af423f0de36758e05857eb0b5e8635972488306ebfd2ca4ce3bc248":"74c6bffe0":

GCM NIST Validation (AES-128,128,0,0,128) #0
gcm_encrypt_and_tag:"7a3501d9db8b8ab086f5fafaee88767bc7":"4f0dfb62aae780814a1f261a1fe4e4242eacf5fd267fd 
0c0f39375919810f66f11013f1bb422207acc41f70fa01ab01797683ce9267691a0dec450335f7c5bdfcadf1f154f99e6140 
176eaa2503b3f6f5e6f5dafa5d05f802e0a8f01e49a8b32a50ec028f2bc7aa451be3747d10b96b3a1105c67c5167eccdc 
18b4a9b6012d03":"6d59be1833e75e7f54ddc9a1d6f5187":"3e5556b1b33c42f1ad6cc67da6e3fh9d6c66672573358 
5e8e2ebc4f6ad8503ce415968b97d2d79a3f80e1a10d75174eb5294ec8898224eb7dfb25f8bf17c5db79a194ace6 
e94cd2f2cafe3fec8adc4e2264fa2db263564e3e8667393a77a0afc36be678d5ca4b6e3ea82d9922b2beb60559f331e 
ec9947be67494694":"615aa45355f1e5797da45e011081f272ce2343ea9e2d102cafa4437c41e64bdef7a211e4ad85 
bdb656215e609011435e9e8da8e239e4782ced7e7ad063f335bc62b859d9ae4edd1b9159081185cf054ead08257 
b0a97632e8c503c6219294af423f0de36758e05857eb0b5e8635972488306ebfd2ca4ce3bc248":"74c6bffe0":

GCM NIST Validation (AES-128,128,0,0,128) #1
gcm_encrypt_and_tag:"f36e07f2689832b914e0b817010c528e":"654104f9d16348231e6ba6fd30c1f02c":"be89753b8a073f421386d4e622c35":0

GCM NIST Validation (AES-128,128,0,0,120) #0
gcm_encrypt_and_tag:"a668ef4d5b6eef8b766a4bb187d0824d1":"a111e94a6426ad9b4362132052eadf4a":"3a3331e641cada2ca8e856135549":0

GCM NIST Validation (AES-128,128,0,0,120) #1
gcm_encrypt_and_tag:"f36e07f2689832b914e0b817010c528e":"654104f9d16348231e6ba6fd30c1f02c":"be89753b8a073f421386d4e622c35":0
GCM NIST Validation (AES-128,128,0,0,112) #0
gcm_encrypt_and_tag:"957dd6199f19445c374ceda9e9ac082":":";"34887be03b4d4ca8ea2261b600ab0b0e":":";"11 2:"60e2d50adff707d8b279bde6b277":0

GCM NIST Validation (AES-128,128,0,0,112) #1
gcm_encrypt_and_tag:"a5e9a2da5e576e67828e806082d8e780":"f93732ac9448c4a427e634089d7edcc":":";"11 2:"f67ed1c98bd2c5fa738e75f15ae":0

GCM NIST Validation (AES-128,128,0,0,112) #2
gcm_encrypt_and_tag:"0a30a816e8d4d540e84e4d7c93b777":"bf1f332aa91682d05cf95f2b03d26af9":":";"112 :"acfb2f7884bc496f3089e50df42":0

GCM NIST Validation (AES-128,128,0,0,104) #0
gcm_encrypt_and_tag:"b45a16bb5b36a70149dc566ba8a13":"64cca850412091bf4e120cccd612df353":":";"10 4:"7b1a2c3a9be185e5a0b00e":0

GCM NIST Validation (AES-128,128,0,0,104) #1
gcm_encrypt_and_tag:"0bcecbc172aa90e3ea7e2fe328d79723":"2fc5fd964b45082546636ae1e208a937":":";"104 :"fe091a768e731e54e2237b01c":0

GCM NIST Validation (AES-128,128,0,0,104) #2
gcm_encrypt_and_tag:"94297a1ad30c3333dc9b087b1efd43e":"52ec9dc82131d7b1c69c01fed6aad10":":";"104 :"5c927dada855f76ab88fc077203b":0

GCM NIST Validation (AES-128,128,0,0,96) #0
gcm_encrypt_and_tag:"1e8cf3a2008b8d867f0f76e7d7e21bd":"3854b7412de72fecc4b0ce2155f6910e":":";"96: cc8e7eccc056b06e1f3e307e0":0

GCM NIST Validation (AES-128,128,0,0,96) #1
gcm_encrypt_and_tag:"2ce1a9bd93fde2ad8c2c16a395b95":"64072313ed36ee8209f079fa622d7f0":":";"96: cd9e8fffc1423270015bf8e8b":0

GCM NIST Validation (AES-128,128,0,0,96) #2
gcm_encrypt_and_tag:"b15354ad3d874fe47219ebccd45f123":"1b2013153290edef60a6a438bd7517de":":";"96: f65a841ed510bef52b1ee7":0

GCM NIST Validation (AES-128,128,0,0,64) #0
gcm_encrypt_and_tag:"14ef129784776f742f3f8897915ab9":"f7bbe9f699156549935f2b92c1dea163":":";"64: dd10fa64df51231d":0

GCM NIST Validation (AES-128,128,0,0,64) #1
gcm_encrypt_and_tag:"5d4470053c46a577b7b7000075e9bf2c":"854b768fdd7492c21618ca716b8e8790d":":";"64: 1f3e73722006023a":0

GCM NIST Validation (AES-128,128,0,0,64) #2
gcm_encrypt_and_tag:"ea87d675a0406c57f78a2531bfce09a":"0907503fcb06ee384526f7206180a080":":";"64:
"65d546639263bf6":0

GCM NIST Validation (AES-128,128,0,0,32) #0
gcm_encrypt_and_tag:"d3e8e27568e6e17ff807cc207e5d4eea":":"""""""18e51cdff4a3a5ebc7b0d7b177277aa95":":""":""""a7e3f637":0

GCM NIST Validation (AES-128,128,0,0,32) #1
gcm_encrypt_and_tag:"596a602164ba0b6b50ef91bce3a98796":":""""""""2025e72b6da511980a8ddce34565d16a":":""":""":":f84f92de":0

GCM NIST Validation (AES-128,128,0,0,32) #2
gcm_encrypt_and_tag:"d0194b66e86f0ed8adc4b22ed15dbf14":":""""""""32ea8970a8c7b0d6ff3972a146c6984":":""":""":":eef4b97a":0

GCM NIST Validation (AES-128,128,0,3214,0,1024,128) #0
gcm_encrypt_and_tag:"8699ce6e5e5e12c6200676365f149784":":""""""""317bf07e83c2e9717880b7d080957fe1":":""""ee185d73828606de671f792ad543c6f73276ffffb6543c081faec43e0066eaa92d7674f2b7054894644f3ddecbe635e3c4fa800912b59fd6a24b36c4449f6f4f93d3be2f97a7820a6d4ceabe967091a6f270928baa3fd3b61c4a43f4b1e4e4388f8daabfdab2385df4ca23a78d3f11bca15e67d7ac7784842587787106a07":":""":""":":add6c89153c4c0edeadd03df44847742a0":0

GCM NIST Validation (AES-128,128,0,3214,0,1024,128) #1
gcm_encrypt_and_tag:"0a05babe927bf23d2d2f457b90fb6434":":""""8147e999dce462eefec9c1d7f30bfdf5c":":""6424ca7fb242f6c3b05eb9d769b926a9729c6a858dc596208ae6ccfc0b265b8d26af31027f78bb92a9e3b36beae8d964e7a4096513f84fa73f83739a7e115d4678bed19546d2b71b3d0166b25b47ad7c7fa6d74057d889258a796a65f2bf8d3bb151f4e721d398c74594a186e6182c16fe4c8813dfe67215b3c4a94c0":":""":""":":05fac5520a99ad7fb047c4b8995a2c331":0

GCM NIST Validation (AES-128,128,0,3214,0,1024,128) #2
gcm_encrypt_and_tag:"e28c43521174a3782e4a0b7d602336a":":""""2ddbee94f9cfacea080ded468f67180c":":""63190ef542656cc2b69a9b0da8bd2d33c2f757f792d6891c17b0b337ad4fe4539d9154722fa430782a1d79620e97446691816639c453c5a98759a13d2766138c77506c6b7c7e4e44f3f4e7bb562d9bece6e6e2b81544442b89a8b73454218c483e574ca886a84e8c9aaf6f5dd154a17e35a4a5b8f6a05ad5bb013e9":":""":""":":0ce6d74ca4665354a7376636bf18aecf0":0

GCM NIST Validation (AES-128,128,0,3214,0,1024,128) #3
gcm_encrypt_and_tag:"2b2b2bec16c7d3263a35a8e4e0bf8e2e3674":":""""4573eb54419ed91bfa2185b762115bc8":":""""7a4a6b3114dabc5b0f201472c5cb137a97d408565b9bf9784888b72f69a23babddd0684b68d7e0965813728aa5c41f9c2b10d92f8271e200e0519c7c46f572bc9e3f27e13d16ed7bda4b66c1c4b0fecc8c68a1b0ed7b0659090d89ad55e0712dd0837315734f2cb37575241af35ba":":""":""":":2f5d4695795b8580b0bc41a4a81b002":0

GCM NIST Validation (AES-128,128,0,120,128) #0
gcm_encrypt_and_tag:"2b2bec1c7d3263a35a8e4e0bf8e2e3674":":""""4573eb54419ed91bfa2185b762115bc8":":""""7a4a6b3114dabc5b0f201472c5cb137a97d408565b9bf9784888b72f69a23babddd0684b68d7e0965813728aa5c41f9c2b10d92f8271e200e0519c7c46f572bc9e3f27e13d16ed7bda4b66c1c4b0fecc8c68a1b0ed7b0659090d89ad55e0712dd0837315734f2cb37575241af35ba":":""":""":":2f5d4695795b8580b0bc41a4a81b002":0

GCM NIST Validation (AES-128,128,0,120,128) #1
gcm_encrypt_and_tag:"886ebf12554b075d9d663ef0d76acebe5":":""""7e7a37542868f2c7a01865c3a635ad5":":""cb25c2f029c7a877a0a56c57f7347b317ad534281edee9a839996dfc42b13787e5bb237525ac926ca8a6c5078210f4a27863e8114c728a0963fa93ae990e856b6e8097c2d33dca1a40789e2f495d2e75356aaed89710225f20e6b6b88a785d74b78a734e311fd236f9e979020674004ee4151878953940b20a2b3":":""":""":":18255116ee13e3cf936633017c4dec3a":0
GCM NIST Validation (AES-128,128,0,1024,64) #0
gcm_encrypt_and_tag:"382d86868cd08d41794f3bf73729e09":"":069069c377958235174137b34e0f7c67":"":049af372e34ef7a92d4d0352d2dabcfe792a6e8ca17e166d4799971bc239ef5810e36f6990e961a7b69392d3af3ее38bb5074c6e93913c02dbcb6cf85450f40d621767797b4c7d5d77c752601c9812fa5085b78b2d6922bedf46b1ff2a8340ce1c01e317e3526cd81218ac24af87b07f8792849f6479b8e":":32:"fffa59fa":0

GCM NIST Validation (AES-128,128,0,1024,32) #0
gcm_encrypt_and_tag:"382d86868cd08d41794f3bf73729e09":"":069069c377958235174137b34e0f7c67":"":049af372e34ef7a92d4d0352d2dabcfe792a6e8ca17e166d4799971bc239ef5810e36f6990e961a7b69392d3af3ее38bb5074c6e93913c02dbcb6cf85450f40d621767797b4c7d5d77c752601c9812fa5085b78b2d6922bedf46b1ff2a8340ce1c01e317e3526cd81218ac24af87b07f8792849f6479b8e":":32:"fffa59fa":0

GCM NIST Validation (AES-128,128,0,1024,16) #0
gcm_encrypt_and_tag:"382d86868cd08d41794f3bf73729e09":"":069069c377958235174137b34e0f7c67":"":049af372e34ef7a92d4d0352d2dabcfe792a6e8ca17e166d4799971bc239ef5810e36f6990e961a7b69392d3af3ее38bb5074c6e93913c02dbcb6cf85450f40d621767797b4c7d5d77c752601c9812fa5085b78b2d6922bedf46b1ff2a8340ce1c01e317e3526cd81218ac24af87b07f8792849f6479b8e":":32:"fffa59fa":0

GCM NIST Validation (AES-128,128,0,1024,8) #0
gcm_encrypt_and_tag:"382d86868cd08d41794f3bf73729e09":"":069069c377958235174137b34e0f7c67":"":049af372e34ef7a92d4d0352d2dabcfe792a6e8ca17e166d4799971bc239ef5810e36f6990e961a7b69392d3af3ее38bb5074c6e93913c02dbcb6cf85450f40d621767797b4c7d5d77c752601c9812fa5085b78b2d6922bedf46b1ff2a8340ce1c01e317e3526cd81218ac24af87b07f8792849f6479b8e":":32:"fffa59fa":0
GCM NIST Validation (AES-128, 128, 2048, 2048, 1024) #0

gcm_encrypt_and_tag:"f5a7b0b26d1e864f6f9819e19eef2c6":"3d2a1dadc597b5e7b6ce487601500e01c8550b5
25e387ab7c8c8c2fcf6b291693s38e2c42e7b7a6a3ca2117d2e67ea058a78989d6794f69d551e30c3f52618dcbf9a0e0
79ca56b7647572d76a7b6a560e96963e9ac5e0b15a5dbd647211919da2ec5110c2b8d487e792cf69296001587c7bd4
48e6f6864019af6c32a6fe6:"
06da3f4b3a263c0178379646bce391fb5526d02832361962375d299e6c52962d68ab68d186f7
7915ea31cc5dd0f37e4304966892327c86052b99685331994a2fbb24d9e090db1d3c2e7f8b84bc98920a339f
71b4608d3e73b418b9aa2e5757b7d45f03635749a925bc22d66645ab956ab29ea6366d8ce2252d1c5710d45":"
112:833d2c5f5e49306050d6b359:"

GCM NIST Validation (AES-128, 128, 2048, 2048, 1024) #1

GCM NIST Validation (AES-128, 128, 2048, 2048, 1024) #2
GCM NIST Validation (AES-128,128,1024,1024,96) #1

gcm_encrypt_and_tag:"1a0a9b2dd1ae31b3e47b6df979dd2ff": "357386f96620e0a7d7afe163c7bb303488b324b516 cadd13872f4e7251f64c65c95067488b2fa2b167e6c4453b2f13080388a92d96939beac2152574bd5477744281b7ef7 d0661b3672cd45abd530d98de4ac0a5653038c0224df5f9e3190c86df6a5c52055f80fe7f3a4f0299162219837c999 a9e0a12e8061f01227af: "b39e86165fa60264129db6ac3a7e6266f": "427b17c013d335b50165e549e44a988baf424a e0c843835e8ab58082fcf24255655878a1c627a441605e5054a0a406f65f5b452cd2342e2aa0e0011bf7edcd67b02f3 a370075550819a8379c226ade404117ac3a3fa70968495eab287064ee584b4ce596612fe64597518e6959518e3b b881967ab6b9f71627d": "43803b735f00b2e098d513ee7b3ab3413fa3d26f7a256fe7be0f3dced6af5490792940ac ae4d444d5475b2a358c14893aaaan6e032361c45202202d2b512906ed3733d80a7f30c2964e157377d37a56c839768 c6edfbd48593900b566bbaa837f1668f478677621a297d4b5a2c1a86f8988d464acce51435b0dd66c7": "f000f2d398d18534428f82": "0"

GCM NIST Validation (AES-128,128,1024,1024,96) #2

gcm_encrypt_and_tag:"4da736fba2b720ea2ba60793da344d": "4004852edd5dcde13507252edc8b20a93ac9081 cc2a8133c48d2807e5f968e0c4a02dd5c2e07d6ce437e0b8650e794e45500d34ecf2b2d2a7c54334b6284b16363c 06vd2e7f8b1ac7e018eb94d20e7e8c3237f0502cm73799e1a89436f1e2712673ae825df4553354031696df1f 09fb52380c0373bd4dfc": "857a442c9af965a2192d893c188bc3": "429915c3093b0faa2a2b88e89f4a9376a2329805 a4d6daa11e9e20c2f98267f1e8f75399a657777703dcbf755e93be8d08e426d0099a59e8b963f4d426964692de07bd2 31cede9e853979c125af50730ca3726e1f1bf0b5d7920240c1135012920951816ed2e161cd2b5ad45a7b99ed3413d 9030e9721c62f6200359bb": "ff4e46c423604b0d52a26d62b9919d2ed5fe4318ce930d4075051469c7e36e44bbcc9 09496662765a2ec70021982e0b3ea3d4fd35a3e90370a5a269ca8847a8b4477f7dd60508ff04d413f63db51 7c96d15db7e86557548edd280f2e7e9f5deca31117807221f5394b840f5b6ef7999cb6d205f8e522b3d5e": "624b0b5b63745153835bb85e": "0"

GCM NIST Validation (AES-128,128,1024,1024,64) #0

gcm_encrypt_and_tag:"5bacc784114b9d78c3eb748a783d1448": "7d57d418bea0072475e18c17a2e4601c3e8bc89f6f 1ed365d5aebeec7593ced3871d694a25cf9d723f291d39e0e4c7475012471fa8e06db0c4ad8263acf7d348bb32a986b53 dd1a1b8f9a8408c1d708bd8b1a5d2894082bb2822fdfe8f0182a4a6bb68acedcfcf59160fb5afaa542581284fdd4072d 2 862a8b22b450e17213b3": "5f4fe440fa9537d6e262994ab20f8": "b5dfc0d97f1920b0a4c029d4c346a49788b94faac db188990f51457898a90e78893516a7b48c601710b0f7d3c12a9049e2d57677491l99788ab23760657580b3040 881cf20a57a6bafde5e1269519a1077ba2b35588b1f0e116576d985b3e974192757b5f49d4de3a537f161de05de50e 37ad3356134fa01aa48e": "6bc060e9b8cee6c4e245ef9786fd6b113deca75e1b475bc31ffda0c7547a85e3e7aac8e5f212 1c0610b99a2c64591fc2514b643ce379b453c54326b9729ae9acee8b8a2e20de7e4b0859a6f655f52a1598b0c391 08e7c7d9d949e79287ce1f662b1b5ff9dd51ab12f8e61b59ca500329a658f91a0a0524950": "64": "354f8b8bed3 8f2a26": "0"

GCM NIST Validation (AES-128,128,1024,1024,64) #1

gcm_encrypt_and_tag:"427ce89146e7d76578dc173bd9e15cda": "1d39249130404d0ed40241cf3354458e0ff1474b 37235569d882553009853f9c9010f939435602acc710a4e386b2ecbf9b327adcfcbdd0c84353ff029d24787ce81e7a5
if(USE_PKCS11_HELPER_LIBRARY)
    set(libs $[libs] pkcs11-helper)
endif(USE_PKCS11_HELPER_LIBRARY)

if(ENABLE_ZLIB_SUPPORT)
    set(libs $[libs] ${ZLIB_LIBRARIES})
endif(ENABLE_ZLIB_SUPPORT)

add_executable(ssl_client1 ssl_client1.c)
target_link_libraries(ssl_client1 $[libs])

add_executable(ssl_client2 ssl_client2.c)
target_link_libraries(ssl_client2 $[libs])

add_executable(ssl_server ssl_server.c)
target_link_libraries(ssl_server $[libs])

add_executable(ssl_fork_server ssl_fork_server.c)
target_link_libraries(ssl_fork_server $[libs])

add_executable(ssl_mail_client ssl_mail_client.c)
target_link_libraries(ssl_mail_client $[libs])

install(TARGETS ssl_client1 ssl_client2 ssl_server ssl_fork_server ssl_mail_client
        DESTINATION "bin"
        PERMISSIONS OWNER_READ OWNER_WRITE OWNER_EXECUTE GROUP_READ
        GROUP_EXECUTE WORLD_READ WORLD_EXECUTE)
add_executable(gen_random_havege gen_random_havege.c)
target_link_libraries(gen_random_havege polarssl)

add_executable(gen_random_ctr_drbg gen_random_ctr_drbg.c)
target_link_libraries(gen_random_ctr_drbg polarssl)

add_executable(gen_entropy gen_entropy.c)
target_link_libraries(gen_entropy polarssl)

install(TARGETS gen_random_havege gen_random_ctr_drbg gen_entropy
        DESTINATION "bin"
        PERMISSIONS OWNER_READ OWNER_WRITE OWNER_EXECUTE GROUP_READ
        GROUP_EXECUTE WORLD_READ WORLD_EXECUTE)

<projectname>
<configuration>
</configuration>
</itemgroup>
<UseDebugLibraries>true</UseDebugLibraries>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)=='Release|Win32'" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>false</UseDebugLibraries>
  <WholeProgramOptimization>true</WholeProgramOptimization>
  <CharacterSet>Unicode</CharacterSet>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)=='Release|x64'" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>false</UseDebugLibraries>
  <WholeProgramOptimization>true</WholeProgramOptimization>
  <CharacterSet>Unicode</CharacterSet>
</PropertyGroup>

<PlatformToolset>Windows7.1SDK</PlatformToolset>
</PropertyGroup>

<Import Project="$(VCTargetsPath)\Microsoft.Cpp.props" />

<ImportGroup Label="ExtensionSettings">

</ImportGroup>

<ImportGroup Label="PropertySheets" Condition=""$(Configuration)|$(Platform)=='Debug|Win32'">
</ImportGroup>

<ImportGroup Condition=""$(Configuration)|$(Platform)=='Debug|x64'">
</ImportGroup>

<ImportGroup Condition=""$(Configuration)|$(Platform)=='Release|Win32'">
</ImportGroup>

<ImportGroup Condition=""$(Configuration)|$(Platform)=='Release|x64'">
</ImportGroup>

<PropertyGroup Label="UserMacros" />

<PropertyGroup Condition=""$(Configuration)|$(Platform)=='Debug|Win32'">
  <LinkIncremental>true</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)=='Debug|x64'">
  <LinkIncremental>true</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)=='Release|Win32'">
  <LinkIncremental>false</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)=='Release|x64'">
  <LinkIncremental>false</LinkIncremental>
</PropertyGroup>
<ItemDefinitionGroup Condition="'$(Configuration)|$(Platform)'=='Debug|Win32'">
  <ClCompile>
    <PrecompiledHeader/>
    <WarningLevel>Level3</WarningLevel>
    <Optimization>Disabled</Optimization>
  </ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <ShowProgress>NotSet</ShowProgress>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole3 2.lib;oleaut32.lib;uuid.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
  </Link>
  <ProjectReference />
</ItemDefinitionGroup>

<ItemDefinitionGroup Condition="'$(Configuration)|$(Platform)'=='Debug|x64'">
  <ClCompile>
    <PrecompiledHeader/>
    <WarningLevel>Level3</WarningLevel>
    <Optimization>Disabled</Optimization>
  </ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <ShowProgress>NotSet</ShowProgress>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole3 2.lib;oleaut32.lib;uuid.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
  </Link>
  <ProjectReference />
</ItemDefinitionGroup>

<ItemDefinitionGroup Condition="'$(Configuration)|$(Platform)'=='Release|Win32'">
  <ClCompile>
    <PrecompiledHeader/>
    <WarningLevel>Level3</WarningLevel>
    <Optimization>Disabled</Optimization>
  </ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <ShowProgress>NotSet</ShowProgress>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole3 2.lib;oleaut32.lib;uuid.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
  </Link>
  <ProjectReference />
</ItemDefinitionGroup>

<ItemDefinitionGroup Condition="'$(Configuration)|$(Platform)'=='Release|x64'">
  <ClCompile>
    <PrecompiledHeader/>
    <WarningLevel>Level3</WarningLevel>
    <Optimization>Disabled</Optimization>
  </ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <ShowProgress>NotSet</ShowProgress>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole3 2.lib;oleaut32.lib;uuid.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
  </Link>
  <ProjectReference />
</ItemDefinitionGroup>
Check compiletime library version
check_compiletime_version:"1.2.8"

Check runtime library version
check_runtime_version:"1.2.8"
set(libs
polarssl
)
add_executable(strerror strerror.c)
target_link_libraries(strerror ${libs})
install(TARGETS strerror
DESTINATION "bin"
PERMISSIONS OWNER_READ OWNER_WRITE OWNER_EXECUTE GROUP_READ
GROUP_EXECUTE WORLD_READ WORLD_EXECUTE)
<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" ToolsVersion="4.0"
xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
<ItemGroup Label="ProjectConfigurations">
<ProjectConfiguration Include="Debug|Win32">
<Configuration>Debug</Configuration>
<Platform>Win32</Platform>
</ProjectConfiguration>
<ProjectConfiguration Include="Debug|x64">
<Configuration>Debug</Configuration>
<Platform>x64</Platform>
</ProjectConfiguration>
<ProjectConfiguration Include="Release|Win32">
<Configuration>Release</Configuration>
<Platform>Win32</Platform>
</ProjectConfiguration>
<ProjectConfiguration Include="Release|x64">
<Configuration>Release</Configuration>
<Platform>x64</Platform>
</ProjectConfiguration>
</ItemGroup>
<ItemGroup>
<ClCompile Include="..\..\programs\hash\sha1sum.c" />
</ItemGroup>
<ItemGroup>
<ProjectReference Include="PolarSSL.vcxproj">
<Project>{46cf2d25-6a36-4189-b59c-e4815388e554}</Project>
</ProjectReference>
</ItemGroup>
<PropertyGroup Label="Globals">
<ProjectGuid>{15F21E24-7810-4B51-AF44-69F9062E35A0}</ProjectGuid>
<Keyword>Win32Proj</Keyword>
<RootNamespace>sha1sum</RootNamespace>
</PropertyGroup>
<Import Project="$(VCTargetsPath)\Microsoft.Cpp.Default.props" />
<PropertyGroup Condition="'$(Configuration)|$(Platform)'=='Debug|Win32'" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>

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<UseDebugLibraries>true</UseDebugLibraries>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
</PropertyGroup Condition=""$(Configuration)|$(Platform)="Debug|x64" Label="Configuration">
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<UseDebugLibraries>true</UseDebugLibraries>
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<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>false</UseDebugLibraries>
<WholeProgramOptimization>true</WholeProgramOptimization>
<CharacterSet>Unicode</CharacterSet>
<PlatformToolset>Windows7.1SDK</PlatformToolset>
</PropertyGroup>
</PropertyGroup Condition=""$(Configuration)|$(Platform)="Release|x64" Label="Configuration">
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<PlatformToolset>Windows7.1SDK</PlatformToolset>
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<UseDebugLibraries>true</UseDebugLibraries>
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<UseDebugLibraries>true</UseDebugLibraries>
<WholeProgramOptimization>true</WholeProgramOptimization>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
<PlatformToolset>Windows7.1SDK</PlatformToolset>
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</PropertyGroup Condition=""$(Configuration)|$(Platform)="Debug|Win32" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>true</UseDebugLibraries>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
</PropertyGroup Condition=""$(Configuration)|$(Platform)="Debug|x64" Label="Configuration">
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<WholeProgramOptimization>true</WholeProgramOptimization>
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</PropertyGroup>
<PlatformToolset>Windows7.1SDK</PlatformToolset>
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<UseDebugLibraries>false</UseDebugLibraries>
<WholeProgramOptimization>true</WholeProgramOptimization>
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<PlatformToolset>Windows7.1SDK</PlatformToolset>
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</PropertyGroup Condition=""$(Configuration)|$(Platform)="Release|x64" Label="Configuration">
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<UseDebugLibraries>false</UseDebugLibraries>
<WholeProgramOptimization>true</WholeProgramOptimization>
<CharacterSet>Unicode</CharacterSet>
<PlatformToolset>Windows7.1SDK</PlatformToolset>
</PropertyGroup>
<Import Project="$(VCTargetsPath)\Microsoft.Cpp.props" />
<ImportGroup Label="ExtensionSettings" />
</ImportGroup>
<ImportGroup Label="PropertySheets" Condition=""$(Configuration)|$(Platform)="Debug|Win32"">
</ImportGroup>
<ImportGroup Condition=""$(Configuration)|$(Platform)="Debug|x64" Label="PropertySheets">
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</ImportGroup>
</ImportGroup Condition=""$(Configuration)|$(Platform)="Debug|Win32" Label="UserMacros">
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</PropertyGroup>
</ImportGroup Condition=""$(Configuration)|$(Platform)="Debug|x64" Label="UserMacros">
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</ImportGroup Condition=""$(Configuration)|$(Platform)="Release|Win32" Label="UserMacros">
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</PropertyGroup>
<PropertyGroup Condition=""$(Configuration)|$(Platform)''==''Release|x64"">
<LinkIncremental>false</LinkIncremental>
</PropertyGroup>
<ItemDefinitionGroup Condition=""$(Configuration)|$(Platform)''==''Debug|Win32"">
<ClCompile>
<PrecompiledHeader/>
<WarningLevel>Level3</WarningLevel>
<Optimization>Disabled</Optimization>
<PreprocessorDefinitions>WIN32;_DEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
<AdditionalIncludeDirectories>./../include</AdditionalIncludeDirectories>
</ClCompile>
<Link>
<SubSystem>Console</SubSystem>
<GenerateDebugInformation>true</GenerateDebugInformation>
>ShowProgress>NotSet</ShowProgress>
<AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbc32.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
<AdditionalLibraryDirectories>Debug</AdditionalLibraryDirectories>
</Link>
<ProjectReference>
<LinkLibraryDependencies>false</LinkLibraryDependencies>
</ProjectReference>
</ItemDefinitionGroup>
<ItemDefinitionGroup Condition=""$(Configuration)|$(Platform)''==''Debug|x64"">
<ClCompile>
<PrecompiledHeader/>
<WarningLevel>Level3</WarningLevel>
<Optimization>Disabled</Optimization>
<PreprocessorDefinitions>WIN32;_DEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
<AdditionalIncludeDirectories>./../include</AdditionalIncludeDirectories>
</ClCompile>
<Link>
<SubSystem>Console</SubSystem>
<GenerateDebugInformation>true</GenerateDebugInformation>
>ShowProgress>NotSet</ShowProgress>
<AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbc32.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
<AdditionalLibraryDirectories>Debug</AdditionalLibraryDirectories>
</Link>
<ProjectReference>
<LinkLibraryDependencies>false</LinkLibraryDependencies>
</ProjectReference>
-----BEGIN X509 CRL-----
MIIBqzBIDANBgkqhkiG9w0BAQIFFADA7MQswCQYDVQQGEwJOTDERMA8GA1UEChMI
UG9sYXJTU0wxGTAXBgNVBAMTEFBvbGFyU1NMIFRlc3QgQ0ExDTA5MDcxOTE5NTYz
N1oXDTA5MDkxNzE5NTYzN1owKDAASgEaBFw0wOTAyMDkyMTEyMzZaMBICAQMXDTA5
MDlwOTIxMTlNlowDQYJKoZIhvcNAQECAQgADBgNiN2ZiA05z9oBE+o+T+LW/cumC
y0w9zLg8w8ogw9QF+681NjRNCy9W/c7qGnLg1Gg1vAe2Jz9vR/v/a8g+/N90MvG
V6vWv+1O+9f5h8EgN7UeF9R0Nv+5QaE2I+RzGj0d+B+f3p4Qp3a8G2QPMp9s+6/
q4vT9R7q7q27v+7n22ZL9vYF9vF7W+nQ7n3eP4v/f78pF7P9f7d7p9f7Wv7v7v7
-----END X509 CRL-----

PBKDF2 RFC 6070 Test Vector #1 (SHA1)
pbkdf2_hmac:POLARSSL_MD_SHA1:"70617373776f7264":"73616c74":1:20:"0c60c80f961f0e71f3a9b524af6012062fe03?6a

PBKDF2 RFC 6070 Test Vector #2 (SHA1)
pbkdf2_hmac:POLARSSL_MD_SHA1:"70617373776f7264":"73616c74":2:20:"ea6c014dc72d6f8ccd1ed92ace1d41f0d8de8957"

PBKDF2 RFC 6070 Test Vector #3 (SHA1)
pbkdf2_hmac:POLARSSL_MD_SHA1:"70617373776f7264":"73616c74":4096:20:"4b007901b765489abead49d926f721d065a429c1"

PBKDF2 RFC 6070 Test Vector #5 (SHA1)
pbkdf2_hmac:POLARSSL_MD_SHA1:"70617373776f7264":"73616c74":25:4096:20:4b007901b765489abead49d926f721d065a429c1

PBKDF2 RFC 6070 Test Vector #6 (SHA1)
pbkdf2_hmac:POLARSSL_MD_SHA1:"70617373776f7264":"73616c74":4096:16:56fa6aa75548099dce37d7f03425e0c3
generic md2 Test vector RFC1319 #1
depends_on:POLARSSL_MD2_C
md_text:"md2":"8350e5a3e24c153df2275c9f80692773"
generic md2 Test vector RFC1319 #2
depends_on:POLARSSL_MD2_C
md_text:"md2":"a":"32ec01ec4af6dac72e0ab96fb34c0b5d1"
generic md2 Test vector RFC1319 #3
depends_on:POLARSSL_MD2_C
md_text:"md2":"abc":"da85b0d3f88d99b30283a69e6ded6bb"
generic md2 Test vector RFC1319 #4
depends_on:POLARSSL_MD2_C
md_text:"md2":"message digest":"ab4f496bfb2a530b219ff33031fe06b0"
generic md2 Test vector RFC1319 #5
depends_on:POLARSSL_MD2_C
md_text:"md2":"abcdefghijklmnopqrstuvwxyz":"4e8ddff3650292ab5a4108c3aa47940b"

generic md2 Test vector RFC1319 #6
depends_on:POLARSSL_MD2_C
md_text:"md2":"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789":"da33def2a42df13975352846c30338cd"

generic md2 Test vector RFC1319 #7
depends_on:POLARSSL_MD2_C
md_text:"md2":"12345678901234567890123456789012345678901234567890123456789012345678901234567890":"d5976f79d83d3a0de9806c3c66f3efd8"

generic md4 Test vector RFC1320 #1
depends_on:POLARSSL_MD4_C
md_text:"md4":"":"31d6cfe0d16ae931b73c59d7e0c089c0"

generic md4 Test vector RFC1320 #2
depends_on:POLARSSL_MD4_C
md_text:"md4":"a":"bde52cb31de33e46245e05fbd6fd6fb24"

generic md4 Test vector RFC1320 #3
depends_on:POLARSSL_MD4_C
md_text:"md4":"abc":"a448017aaf21d8525fc10ae87aa6729d"

generic md4 Test vector RFC1320 #4
depends_on:POLARSSL_MD4_C
md_text:"md4":"message digest":"d9130a8164549fe818874806e1c7014b"

generic md4 Test vector RFC1320 #5
depends_on:POLARSSL_MD4_C
md_text:"md4":"abcdefgijklmnopqrstuvwxyz":"d79e1c308aa5bcbd8eeb63df412da9"

generic md4 Test vector RFC1320 #6
depends_on:POLARSSL_MD4_C
md_text:"md4":"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789":"043f8582f241db351ce627e153c70e4"

generic md4 Test vector RFC1320 #7
depends_on:POLARSSL_MD4_C
md_text:"md4":"12345678901234567890123456789012345678901234567890123456789012345678901234567890":"e33b4dde9c3f82199c3e7b164f0536"

generic md5 Test vector RFC1321 #1
depends_on:POLARSSL_MD5_C
md_text:"md5":"":"d41d8cd98f00b204e9800998ecf8427e"

generic md5 Test vector RFC1321 #2
Generic md5 test vector RFC1321 #3
depends_on: POLARSSL_MD5_C
md_text: "md5": "abc": "0cc175b9c0f1b6a831c399e269772661"

Generic md5 test vector RFC1321 #4
depends_on: POLARSSL_MD5_C
md_text: "md5": "message digest": "f96b697d7eb7938d525a2f31aaf161d0"

Generic md5 test vector RFC1321 #5
depends_on: POLARSSL_MD5_C
md_text: "md5": "abcdefghijklmnopqrstuvwxyz": "c3fcd3d76192e4007dfb496cca67e13b"

Generic md5 test vector RFC1321 #6
depends_on: POLARSSL_MD5_C
md_text: "md5": "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789": "d174ab98d277d9f5a5611c29f419d9f"

Generic HMAC-MD2 hash file OpenSSL test #1
depends_on: POLARSSL_MD2_C
md_hmac: "md2": 16: "616161616161616161616161": "b91ce5ac77d33c234e61002ed6": "d5732582f494f5ddf35efd166ce85a9e"

Generic HMAC-MD2 hash file OpenSSL test #2
depends_on: POLARSSL_MD2_C
md_hmac: "md2": 16: "616161616161616161616161": "b91ce5ac77d33c234e61002ed6": "eabd0fbefb82fb0063a25a6d7b8bd0f"
generic HMAC-MD4 Hash File OpenSSL test #2
depends_on:POLARSSL_MD4_C
md_hmac:"md4":16:"61616161616161616161616161616161":"720fcf11f2c727448457d7049a7ed80b84a3e554e0b2
acf8506982213f0ad6196042e4e869c4ff2171e18e3489baa31672d2c3d56ebb612969f6ba97e9f668eeabecd0b6dde4777
5004096a241efca9109d19b34e898cc3740cdec940f8bd46623e352f34bca131d4d6a7c2db8d0d68b67f06152a12816
8e1c341c37e0a66c5018999b7059bccc300b2ecd2c19d1152d2fe062853293b8f3c8b5":"cc3c5e421a7b783aa89cacf78
daf6dc"

generic HMAC-MD4 Hash File OpenSSL test #3
depends_on:POLARSSL_MD4_C
md_hmac:"md4":16:"61616161616161616161616161616161616161616161616161616161616161616161616161616161616161616161616161616161616161616161616161616161616161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":":
ad5f0a04116109b397b57f9c9b6d4f"
generic HMAC-MD5 Test Vector RFC2202 #4
depends_on:POLARSSL_MD5_C
md_hmac:"md5":16:"0102030405060708090a0b0c0d0e0f10111213141516171819":"cdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecdecde
generic multi step md2 Test vector RFC1319 #7
depends_on:POLARSSL_MD2_C
md_text_multi:"md2":"1234567890123456789012345678901234567890123456789012345678901234567890";"d5976f79d83d3a0dc9806c3c66f3ef8d8"

generic multi step md4 Test vector RFC1320 #1
depends_on:POLARSSL_MD4_C
md_text_multi:"md4":"31d6cfe0d16ae931b73c59d7e0c089e0"

generic multi step md4 Test vector RFC1320 #2
depends_on:POLARSSL_MD4_C
md_text_multi:"md4":"bde52cb31de33e46245e05fbdbd6fb24"

generic multi step md4 Test vector RFC1320 #3
depends_on:POLARSSL_MD4_C
md_text_multi:"md4":"a448017aaf21d8525fc10ae87aa6729d"

generic multi step md4 Test vector RFC1320 #4
depends_on:POLARSSL_MD4_C
md_text_multi:"md4":"d9130a8164549fe818874806e1c7014b"

generic multi step md4 Test vector RFC1320 #5
depends_on:POLARSSL_MD4_C
md_text_multi:"md4":"d79e1c308aa5bbcdkea8ed63df412da9"

generic multi step md4 Test vector RFC1320 #6
depends_on:POLARSSL_MD4_C
md_text_multi:"md4":"d41d8cd98f00b204e9800998ecf8427e"

generic multi step md4 Test vector RFC1320 #7
depends_on:POLARSSL_MD4_C
md_text_multi:"md4":"0cc175b9c0f1b6a831c399e269772661"

generic multi step md5 Test vector RFC1321 #1
depends_on:POLARSSL_MD5_C
md_text_multi:"md5":"e33b4dcd9c38f2199c3e7b164fccc0536"

generic multi step md5 Test vector RFC1321 #2
depends_on:POLARSSL_MD5_C
md_text_multi:"md5":"d201c979a71c7c1482c330d2d56fa98b"

generic multi step md5 Test vector RFC1321 #3
depends_on:POLARSSL_MD5_C
md_text_multi:"md5":"043f8582f4241db351ce627e153e7f0e4"
md_text_multi":md5":"abc":"900150983cd24fb0d6963f7d28e17f72"

generic multi step md5 Test vector RFC1321 #4
depends_on:POLARSSL_MD5_C
md_text_multi":md5":"message digest":"f96b697d7cb7938d525a2f31aaf161d0"

generic multi step md5 Test vector RFC1321 #5
depends_on:POLARSSL_MD5_C
md_text_multi":md5":"abcdefghijklmnopqrstuvwxyz":"c3fcd3d76192e4007dfb496cca67e13b"

generic multi step md5 Test vector RFC1321 #6
depends_on:POLARSSL_MD5_C
md_text_multi":md5":"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789":"d174ab98d277d9f5a5611c2e9f419d9f"

generic multi step md5 Test vector RFC1321 #7
depends_on:POLARSSL_MD5_C
md_text_multi":md5":"123456789012345678901234567890123456789012345678901234567890":"57ef4a22be3c955ac49da2e2107b67a"

generic multi step HMAC-MD2 Hash File OpenSSL test #1
depends_on:POLARSSL_MD2_C
md_hmac_multi":md2":16":61616161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"d5732582f494f5df35efd166c85af9e"

generic multi step HMAC-MD2 Hash File OpenSSL test #2
depends_on:POLARSSL_MD2_C
md_hmac_multi":md2":16":61616161616161616161616161616161616161616161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"d850e5f554558cf0fe79a0612e1d0365"

generic multi step HMAC-MD4 Hash File OpenSSL test #1
depends_on:POLARSSL_MD4_C
md_hmac_multi":md4":16":61616161616161616161616161616161616161616161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"eabd0fbebfb82fb0063a25a6d7b8bdc0f"

generic multi step HMAC-MD4 Hash File OpenSSL test #2
depends_on:POLARSSL_MD4_C
md_hmac_multi":md4":16":61616161616161616161616161616161616161616161616161616161616161616161":"270fcf11f27c27448457d7049a7eddb084a3e554e0b2acf5806982213f0ad516402e4c8869e4ff2171e1e8e3498aa31252c3056eb61629f9b6aa97e6f8eeabdc0b6dde47775004096a241efc0a90d19b34e3898cc73404cd490f8bdd4e23e352f34ba131d4d67a7c2d8dd8d0d68b67f06152a128168e1c341ec3e0a66c5018999b7059bccc300beed2c19dd1152d2fe062853293b8f3e8b5":"54ab68503f71b5c7741340df2722a9"
47775004096a241efcf0a90d19b34e898cc7340cdc940f8bdd46e23e352f34bca131d4d67a7c2ddb8d0d68b67f06152a1
28168e1c341c37e0a66c5018999b7059bcc300beed2c19dd1152d2fe062853293b8f3c8b5":"cec3c5e421a7b783aa89c
acf78daf6dc"
generic multi step HMAC-MD4 Hash File OpenSSL test #3
depends_on:POLARSSL_MD4_C
md_hmac_multi:"md4":16:"6161616161616161616161616161616161616161616161616161616161616161616161
6161616161616161616161616161616161616161616161616161616161616161616161":"b91ce5ac77d33c234e6100
2ed6":"ad5f0a04116109b397b57f9cc9b6df4b"
generic multi step HMAC-MD5 Hash File OpenSSL test #1
depends_on:POLARSSL_MD5_C
md_hmac_multi:"md5":16:"61616161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"42552882f
00bd4633ea81135a184b284"
generic multi step HMAC-MD5 Hash File OpenSSL test #2
depends_on:POLARSSL_MD5_C
md_hmac_multi:"md5":16:"61616161616161616161616161616161":"270fcf11f27c27448457d7049a7edb084a3e55
4e0b2acf5806982213f0ad516402e4c869c4ff2171e18e3489baa3125d2c3056ebb616296f9b6aa97ef68eeabcdc0b6dde
47775004096a241efcf0a90d19b34e898cc7340cdc940f8bdd46e23e352f34bca131d4d67a7c2ddb8d0d68b67f06152a1
28168e1c341c37e0a66c5018999b7059bcc300beed2c19dd1152d2fe062853293b8f3c8b5":"a16a842891786d01fe50b
a7731db7464"
generic multi step HMAC-MD5 Hash File OpenSSL test #3
depends_on:POLARSSL_MD5_C
md_hmac_multi:"md5":16:"6161616161616161616161616161616161616161616161616161616161616161616161
6161616161616161616161616161616161616161616161616161616161616161616161":"b91ce5ac77d33c234e6100
2ed6":"e97f623936f98a7f741c4bd0612fecc2"
generic multi step HMAC-MD5 Test Vector RFC2202 #1
depends_on:POLARSSL_MD5_C
md_hmac_multi:"md5":16:"0b0b0b0b0b0b0b0b0b0b0b0b0b0b0b0b":"4869205468657265":"9294727a3638bb1c13
f48ef8158bfc9d"
generic multi step HMAC-MD5 Test Vector RFC2202 #2
depends_on:POLARSSL_MD5_C
md_hmac_multi:"md5":16:"4a656665":"7768617420646f2079612077616e7420666f72206e6f7468696e673f":"750c
783e6ab0b503eaa86e310a5db738"
generic multi step HMAC-MD5 Test Vector RFC2202 #3
depends_on:POLARSSL_MD5_C
md_hmac_multi:"md5":16:"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa":"dddddddddddddddddddddddddddddddddddddddd
dddddddddddddddddddddddddddddddddddddddddddddddddddddddddddd":"56be34521d144c88dbb8c733f0e8b3f6
"
generic multi step HMAC-MD5 Test Vector RFC2202 #4
depends_on:POLARSSL_MD5_C
md_hmac_multi:"md5":16:"0102030405060708090a0b0c0d0e0f10111213141516171819":"cdcdcdcdcdcdcdcdcdcd

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generic multi step HMAC-MD5 Test Vector RFC2202 #5
depends_on:POLARSSL_MD5_C
md_hmac_multi:"md5":12:"0c0c0c0c0c0c0c0c0c0c0c0c0c0c0c0c"
"546573742057697468205472756e6361746966e""56461ef2342edc009bab995"

generic multi step HMAC-MD5 Test Vector RFC2202 #6
depends_on:POLARSSL_MD5_C
md_hmac_multi:"md5":16:"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"
"546573742055573696e672046c6172676572205468616e20426c6f636b2d53697a65204b6579202d
2048617368204b6579204669727374""6b1ab7fe4bd7bf8f0b62e61b9d0cd"

generic multi step HMAC-MD5 Test Vector RFC2202 #7
depends_on:POLARSSL_MD5_C
md_hmac_multi:"md5":16:"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"
"546573742055573696e672046c6172676572205468616e20426c6f636b2d53697a65204b6579202d
2048617368204b6579204669727374""6f630fad67cda0ee1fbf562db3aa53e"

generic MD2 Hash file #1
depends_on:POLARSSL_MD2_C:POLARSSL_FS_IO
md_file:"md2":"data_files/hash_file_1":"b593c098712d2e21628c8986695451a8"

generic MD2 Hash file #2
depends_on:POLARSSL_MD2_C:POLARSSL_FS_IO
md_file:"md2":"data_files/hash_file_2":"3c027b7409909a4c4b26bbab69ad9f4f"

generic MD2 Hash file #3
depends_on:POLARSSL_MD2_C:POLARSSL_FS_IO
md_file:"md2":"data_files/hash_file_3":"6bb43eb285e81f414083a94cdebe2989d"

generic MD2 Hash file #4
depends_on:POLARSSL_MD2_C:POLARSSL_FS_IO
md_file:"md2":"data_files/hash_file_4":"8350e5a3e24c153df2275c9f80692773"

generic MD4 Hash file #1
depends_on:POLARSSL_MD4_C:POLARSSL_FS_IO
md_file:"md4":"data_files/hash_file_1":"8d19772c176bd27153b9486715e2c0b9"

generic MD4 Hash file #2
depends_on:POLARSSL_MD4_C:POLARSSL_FS_IO
md_file:"md4":"data_files/hash_file_2":"f2ac53b8542882a5a0007c6f84b4d9fd"

generic MD4 Hash file #3
depends_on:POLARSSL_MD4_C:POLARSSL_FS_IO
generic MD4 Hash file #4
depends_on:POLARSSL_MD4_C:POLARSSL_FS_IO
md_file:md4":"data_files/hash_file_3":"195c15158e2d07881d9a654095ce4a42"

generic MD5 Hash file #1
depends_on:POLARSSL_MD5_C:POLARSSL_FS_IO
md_file:md5":"data_files/hash_file_1":"52bcd983e9ed64fc148a759b3c7a415"

generic MD5 Hash file #2
depends_on:POLARSSL_MD5_C:POLARSSL_FS_IO
md_file:md5":"data_files/hash_file_2":"d17d466f15891df10542207ae78277f0"

generic MD5 Hash file #3
depends_on:POLARSSL_MD5_C:POLARSSL_FS_IO
md_file:md5":"data_files/hash_file_3":"d945bdc6200ea95d061a2a818167d920"

generic MD5 Hash file #4
depends_on:POLARSSL_MD5_C:POLARSSL_FS_IO
md_file:md5":"data_files/hash_file_4":"d41d8cd98f00b204e9800998ecf8427e"

generic HMAC-SHA-1 Test Vector FIPS-198a #1
depends_on:POLARSSL_SHA1_C
md_hmac:sha1":"20":"000102030405060708090a0b0c0d0e0f01011112131415161718191a1b1c1d1e1f202122232425262728292a2b2c2d2e2f303132333435363738393a3b3c3d3e3f":"53616d706c65202331":"4f4ca3d568ba7cc0a1208c9c61e9c5da0403c0a"

generic HMAC-SHA-1 Test Vector FIPS-198a #2
depends_on:POLARSSL_SHA1_C
md_hmac:sha1":"20":"303132333435363738393a3b3c3d3e3f40414243":"53616d706c65202332":"0922d3405faa3d194f82a45830737d5cc6c75d24"

generic HMAC-SHA-1 Test Vector FIPS-198a #3
depends_on:POLARSSL_SHA1_C
md_hmac:sha1":"20":"050152535455565758595a5b5c5d5e5f606162636465666768696a6b6c6d6e6f707172737475767778797a7b7c7d7e7f808182838485868788898a8b8c8d8e8f89909192939495969798999a9b9c9d9e9fa0a1a2a3a4a5a6a7a8a9aabacadaeaf0b0b1b2b3":"53616d706c65202333":"bc4f41eab88bb2d802f3d05caf7cbb092ecf8d1a3aa"

generic HMAC-SHA-1 Test Vector FIPS-198a #4
depends_on:POLARSSL_SHA1_C
md_hmac:sha1":"12":"707172737475767778797a7b7c7d7e7f808182838485868788898a8b8c8d8e8f89909192939495969798999a9b9c9d9e9fa0a1a2a3a4a5a6a7a8a9aabacadaeaf0b0b1b2b3":"53616d706c65202334":"9ea886e6e268d6bece420c75"

generic HMAC-SHA-1 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA1_C
md_hmac:sha1":"10":"7b10f4124b15c82e":"27dcb5b1da60cfd3e2f73d4d4ca9c684f8bf71fc682a46793b1790afa4fe
b100ca7aaf2f65800f0ed0ed42f1dead1f474afa2e79d53a0ce42892c4d7b327cb4e6b295ed8da3b6ecab3d4851687a6f81
generic HMAC-SHA-1 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA1_C
md_hmac: "sha1":10:"4fe9f9b02172a21b":"4ecb3a7c13659c22fe5113f03dce4239d181b63c6b0b59d367157fd05c
ab98384f92df482d2d5e78e72eeef11838af4696026c5423d3484ecbbe87f904df5546419f8567eadfd232e6c2f3edce2b
7682c6300524b878dbb2096f585007daee752562df1fe3b01278089e16f3be46e2d0f7cabac2d8e6ccc02a2d0ca953425
f":"564428a67be1924b5793"

generic HMAC-SHA-1 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA1_C
md_hmac: "sha1":10:"d1f01455f78c4fb4":"00d40f67b75914bece456a3e3201ef1464be319a8d188c0e2157af4b54f9b5
a66d67f898a9dbb19f63a80a6a2f46d103575721d52eb1b47a65def8810411c49b257bcca2817fe853f106e8138ce386
d7a5ac3103de0a3fa0ed6bb7a9ff66ebd1cc46fb86e4ada013d2a03c2edc8828a4b7f7f104b1bf344682a66497ea":
"56a665a7cdefe610f9fc5"

generic HMAC-SHA-1 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA1_C
md_hmac: "sha1":10:"e5ef77fd0f33a5b":"59326264e43201d195e29f2a3446ec1b1c9ff31154e2a4d0e40ed466f1bc8
55d29f768356240a1027d29c9b1915939a046f385a7fe5d47a23ba9f128bd2f11ea258dbbf3322cd35438285d5df4
1bd064fd64a341c24ec4eb44f9e8d9e6df0ce59dbf4a052a6c83ada7478e179a6f3839c6870ff8ca8b94979a1cd725fdda":
"981c0a7a8423b63a8f6a"

generic HMAC-SHA-1 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA1_C
md_hmac: "sha1":10:"bcd9ff8aa6062e2b":"51be4d0deeb37bb7b14f92e19e9d70390655b363esdcd346a748245e731f437
759c8206412c882e2f14f36f880f41f6f9d94da45944dec65e23cac1329b59e69e29bf875b38c3d1fd6fa546c595f35
cc2192aa750679a8a51a65e00e839d73a8d8c598a610d23f7be7895213589d08efc7b39b585f96d17b6f51a71c3b
8":"846339ff5040c8971478"

generic HMAC-SHA-1 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA1_C
md_hmac: "sha1":10:"4a661bc66ed86d21":"5ff6c7c44f1aab1b2c29697d11f67541b8b3ccce3c709183b10a83b98a9ce2
51d4bace3e1cb581aca972ae8df7c2875a6f6b4e991132f67e9742d45e53bc7e8ea94f3537a907b661086b42ced1108
8ae118934e85d968e8c6167f6c66f6ea38c0fe34710be7ce912119b7ea00ac31f0222a676236f89928a1352f122233f1
":"739df59353ac6694a55e"

generic HMAC-SHA-1 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA1_C
md_hmac: "sha1":10:"a634b9986489b13a8b823debd296ee1033c7b9a87c9b20bce17b7f03303db5d1e360fa918099c4294bd1215b5cc5148
58f86c3d9409eb7c3b9f878e9c89dbb274a75373deb695a59abd0219529d85518a96f92abc0bcbda985c388f1ffbc9":
"d78d6f08077c7d9e2ba6"

generic HMAC-SHA-224 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA2_C
md_hmac: "sha224":14:"e055eb756697ee573fd3214811a9f7fa":"3875847012ee42fe54a0027bdf38cca7021b83a2ed0
generic HMAC-SHA-224 Test Vector NIST CAVS #2
depends_on: POLARSSL_SHA2_C
md_hmac: "sha224": 14: "88e5258b5b1623385eb932fa7c57d6": "ada76bb604be14326551701cf30e48a65eexe80b44f0b99d4a07b1844543b7844a621097fd099ed57387458ae9354899b620d0617ebcaefa9ee3fd413a33628054335ce656c26f2986e0f11a6350196b283101ec7686871d770b37097374059834756b3005a3e6492cfe07e42e5ce15f6a6be8718c050acc4e5717230": "81c783af538015ce53c6095df53"

generic HMAC-SHA-224 Test Vector NIST CAVS #3
depends_on: POLARSSL_SHA2_C
md_hmac: "sha224": 14: "85d402d822114131abf75526e2537805": "8020d8d98cc2e22298b32879c51c751e1dd5558fe2eab8f1586042976dd072ce2261a6d80b7cfe2617b577c7126f994974211616d75d266da217ec8174b080484cd9e6f0448a0a036a3f8c8e88bf54db71549368258ddf415f7978ac6266b92e8783ef66350215573d99be4089144b383ad8f3222ae8f3bf80ff1bb2": "2aa0340ac9deafe3be563e8129da0a"

generic HMAC-SHA-224 Test Vector NIST CAVS #4
depends_on: POLARSSL_SHA2_C
md_hmac: "sha224": 14: "545c6eecc5ee46fafa17c59f91af49f81ae": "8fb7f3565593170152dddb202187478e4951977cfdd2f88b72a61320a8fsa35697be913f71780559b1af8161ee3ed42fbb788481e4fd276b17dbefcae7b4501dc5d20de5b7626dd5efcd65294db4dbf682c33d9a925564353383af51f886326a3abc6bd50a33ab5db2db034ec011124e4226bbcd57e3731a519aa1d784": "3eb566eac54e4a3e9ef092469f24"

generic HMAC-SHA-224 Test Vector NIST CAVS #5
depends_on: POLARSSL_SHA2_C
md_hmac: "sha224": 14: "466ab464d38841a9750c7f173ddff0e": "2534ac11c78e999cfaexc8722f04ade7045c7324d58ce98e37ca94b6ed21ed7f58e55379ef24b72d6dd40ee9154f96614734be9c408e225d7ba4eccc1179c9fe6e1808e1067aa8f24499b0d3267594c1887a40d16178b7c7f8dbd91997b01f7e50b8c68def490df6675a513500e323e71d77a8cee8ea0f93e0580439a33733": "59f44a9bbed48758b992d22d65ab"
md_hmac: "sha256":16: "cddfd34e6b16fdec":0: "d83e78b99a6b1709608972b36e76a575f303db7422699ed5d4e7d5c7a8716e26b651c92632550b6c4e5253c885d5cfe53b47459a1d8d56257386c0ae1045a35321fc01531afaf04cbb558101a7a5df478834c2146594dd73690d01a4fe72545894335f427ac70204798068cb86c5a600b40b414e6c23590b41e1192373df84fc3": "c6f0dde266c4a26d41e8259dd3c949ce"

generic HMAC-SHA-256 Test Vector NIST CAVS #2 depends_on: POLARSSL_SHA2_C
md_hmac: "sha256":16: "6d97b65892245e2":0: "d83e78b991af0d9c11215dfdbf7d716b6eb7af30a6eb34560caccbbfa47b710af8d523ca7a1e95e10f11e43556d71f07eaa4f33496f093044e8cafd102d97e46e6eb2d885d96a7a7a494fb92574ec537584eece0546e151281d808227fd74b2831353d071f5cb5f4310dd844845a016f8b6ed514c048ecca9f9":1c98c9a32be9f253c21070f82f8438
generic HMAC-SHA-256 Test Vector NIST CAVS #3 depends_on: POLARSSL_SHA2_C
md_hmac: "sha256":16: "3ce7fc8a70b49007a":0: "d83e78b99519ab9d9cc11215dfdbfd716b6eb7af30a6eb34560caccbbfa47b710af8d523ca7a1e95e10f11e43556d71f07eaa4f33496f093044e8cafd102d97e46e6eb2d885d96a7a7a494fb92574ec537584eece0546e151281d808227fd74b2831353d071f5cb5f4310dd844845a016f8b6ed514c048ecca9f9":1c98c9a32be9f253c21070f82f8438
generic HMAC-SHA-256 Test Vector NIST CAVS #4 depends_on: POLARSSL_SHA2_C
md_hmac: "sha256":24: "369f33f858b927a0":0: "d83e78b992c73027b448acbcadb0e904a3e3cb297c296363052cc157455da29a9e5987335fc1e1f312b8e1e2418ada1ec280bc0bce008e487548e49d14deeeba73c9b8dbf958b0fb3ba7355116fc9b9c606be1a4bbfc43a62e50787b66512c5619b716a77e75f72710e1f1f415a1a3c61991fb86ebad365c1515e87d49d57adb3a4986":60b9033286533d090d646593e6cc39fc51f000ad88278c
generic HMAC-SHA-256 Test Vector NIST CAVS #5 depends_on: POLARSSL_SHA2_C
md_hmac: "sha256":24: "e5179687582b4dc4":0: "d83e78b992c73027b448acbcadb0e904a3e3cb297c296363052cc157455da29a9e5987335fc1e1f312b8e1e2418ada1ec280bc0bce008e487548e49d14deeeba73c9b8dbf958b0fb3ba7355116fc9b9c606be1a4bbfc43a62e50787b66512c5619b716a77e75f72710e1f1f415a1a3c61991fb86ebad365c1515e87d49d57adb3a4986":60b9033286533d090d646593e6cc39fc51f000ad88278c
generic HMAC-SHA-256 Test Vector NIST CAVS #6 depends_on: POLARSSL_SHA2_C
md_hmac: "sha256":24: "63cec6246aeb1b6":0: "d83e78b992c73027b448acbcadb0e904a3e3cb297c296363052cc157455da29a9e5987335fc1e1f312b8e1e2418ada1ec280bc0bce008e487548e49d14deeeba73c9b8dbf958b0fb3ba7355116fc9b9c606be1a4bbfc43a62e50787b66512c5619b716a77e75f72710e1f1f415a1a3c61991fb86ebad365c1515e87d49d57adb3a4986":60b9033286533d090d646593e6cc39fc51f000ad88278c
generic HMAC-SHA-256 Test Vector NIST CAVS #7 depends_on: POLARSSL_SHA2_C
md_hmac: "sha256":24: "5e61887df949a3475758949b48a8e1c27ebed76fae2ad669beaca04747d409148d40812776e0ae2c395b3c9c89981ce2d5c":509581f6816d6f08cc9f2c42b76ce6a5a1e375a16f2412

generic HMAC-SHA-256 Test Vector NIST CAVS #8 depends_on: POLARSSL_SHA2_C
md_hmac: "sha256":24: "432d9a7629d7cd22a4057016585f139ee930388b083d86062fa0b3ea1f23f8a43bd11be84646bcb1d9b5ab9f6a8038d525455168274d20c8e0333a07b908da528a0a34349b595dced500cab9745c4cb6391c23300f0d3584809b03326c4cfa3432620b78f95b4f27f7307ed770643ec1764aeaed3cfa13ec69":64f3ddf861b7c7d29f9e9ae0ce9ed954b5d7141806e9eeec7
generic HMAC-SHA-384 Test Vector NIST CAVS #1 depends_on: POLARSSL_SHA4_C
dh_mhash: "sha384":32: "91a7401817386948ca952f9a20ee55dc":0: 02fe5b910356d501f3a834fa178b8ff4e64b99a8450432dafd32e4466b0e1e778116684a73f7e0363b08709205594f7bd1400a1a906e850dc00af626862e9148b23806680f285ff4ef93daef24c18a16934665793c14f2f268c8e8b8471847c74b222577a31306bda1a85fe1468aa1af6d4031213c97324b7509c9050a3d":67d8e9490058cf413cc09fd043c22242ec4fa7859b13783000a9a593c9f75838

generic HMAC-SHA-256 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
md_hmac:`sha384`:`32`:`d6ac19657061aa90a6da11cd2e9ea47`:`9f482e4655171315dfaa22a1b1bbe6af263db48716
406c5ace162b3a4b41cada4f5a915583775211917c343118beee65982929809213d67b6e5c4bdc3d27299b9d722219
5ad2efafa5b9f7f8b229c4b4bec3f60791320cf2e7a51cad1133d21bad2d80919b1836ef825308b7c516e6777a782e2bc
3007afba065681cbdd125`:`f3d5f3c008175321aa7b2ea379eaa4f8b9d068f895ce894b08162f80a7dfef9`;

generic HMAC-SHA-384 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
md_hmac:`sha384`:`32`:`e06366ad149b84424d4c1abddddd0afde`:`2d14a0194c02a5598f69174834679b8371234a0d5
0549f1b1d03e128dd91a8bec2a8b8e9d9da71613b5b00952a78bf450d5b7547de7a791359250857c3d3e6f52009ece
3d88c6e09e9d07d4be0110736ee0e9b478b93efb34d7bf1c4b5d4ece3ce4eb077a3aa49993e553f676b7e4a3ec26674f9
643d5360bdc8337c70dabf`:`c19c67ed6a6fe29f3667bbee1c89733ce76830904ae7784b4c16377d9208951a`;

generic HMAC-SHA-384 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
md_hmac:`sha384`:`48`:`01ac59f42f88b91d1d10fe6990d7a8`:`3c1af18c47ed6561f5343ac7bd7a9da9efade75567
265ba4b8ae8a7505359ae2ac124f7557e0457be49e434380b3c71e7f4742c3693a11d035909222b030fd94403136
91716d53020058080c76724839116df6f1983603ce2b1d26d26eefaf2e47c9034456ecbab256e31f9066de7c7e43d1
321b1866db45e905662`:`1985fa2163a59434c5d9f21fe8831215e7e910bff53326c7131a072db3a8f8e5e5157463a3b
feb36231416e65973e64`;

generic HMAC-SHA-512 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
md_hmac:`sha512`:`32`:`c95a17c09940a691ed2d68990d7a8`:`a0698715854813d16b09b00d0370c2114d537cde8cc
52b3b8d16d5535f87f1d1ad0c8509a9af0fe23737ff7642b11e1814010d350721d798d9f99e9724830399c2f623677e8
3d38845675457865c03d4a07d741a505e028343e29b4d60f767f3972886998e1e5c3ac3b7e6f08fae194b3f40fe
ffee5d4ab5e4c81e4e`:`a981eaf5de3d7b820ebd4414a4ed6057e3667cd808a0dbdc430cf7252f73a5b24e4a13063920
7bd59806897457d7e0e`;

generic HMAC-SHA-512 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C
md_hmac:`sha512`:`32`:`9fe794f0e26b699fa5f6883149377c6e`:`6010ce9745e8f4d44cde9e70f799b537944c1d
1d844a589073d4e4a5eb98c5935f660cd87ef2b8a3eb83a3b2d39392b7ada94f2a167876c5d53ed39324bed443b3c1
2a2be532ca6f4da7e7bc2bc827982932835b3b6f519135efe8e61545536975d7c3a6ba776553c5f16b929b4d19eb
9156ade17d7bab416`:`915a6e1f87545698c2b6fe96929e93441f854b1d4258a5e50372d19136cfae6c04733b48d96119
291b3be1a3cb1928a986`;

generic HMAC-SHA-512 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
md_hmac:`sha512`:`32`:`c95a17c09940a691ed2d621571b0eb844ed55a9`:`99cd28262e8f34878cdcebf412805e20
98a76009278a6dfc785784d05e678f3f2b2f8f8e982d723b67a2322e6175084556d766f1550a7a7edfe83faedbc4bdae
83fa560d62d17e914d05fdada8490551abc81d7005fca714295e386e812066742ec65e6e889a92217a0f6266d0
ddc60bb20fe679ae8299e8502c2f`:`6bc1379d156559ddee2d40ea5d5c5ff3e454a1059b7aba72c353c77e69333c`;

generic HMAC-SHA-512 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
md_hmac:`sha512`:`32`:`3b10b8fa718840d1de8ae9fc317476bcf55875fd`:`f045f70737d7d0274e8354433b390306c5
607632f55f89c12ed62d55f73aff2366d6e6b24de731af92654baa30b1b5df1d4a069788f65ec1b99b015d904d8832110
generic HMAC-SHA-512 Test Vector NIST CAVS #3
depends_on: POLARSSL_SHA4_C
md_hmac: "sha512":32: "4803d311394600dc1e0d8f8cecedeb88de37e4f7e": "a10c125d702a97153ad923ba5e9889cfa1c169de370debe51233735aa6efccfe9785c4b5c7e48e477dc5e411ae6a959118584e2ead94b42c2b9b046f3cf0165b24a24bd2e6b0f6d56a023bb472655b1100d7ce9a4a9af6b79e9c73b43496c25d4e9e73f73f266c0d0353bdeae706612800e137b858fd30f3311c6": "cd8236c55102e6385f522750506df6c88ab75092da21395ce14a82b20ffa"

generic HMAC-SHA-512 Test Vector NIST CAVS #4
depends_on: POLARSSL_SHA4_C
md_hmac: "sha512":48: "aebf2f3b977fa6c8e7e07ca5c7f4f58166de92": "22457355dc76095abd46846bd1cfe49a06ce42ac8857b4702f771508db362e0bfe851df897a07b36811ec433766e4b166626301b3439e7440d4554b0e6f6a20f1a530e588fca8e9e49f2fd4898d8a28783b94cd269c2965fd77f8ef2fd60f1f5e2582495f45b72382aad09e153a90eeca125ad75336f1b128825c23fb80": "fa39bd8f3c3baf218f9dea5d3b2ce10a7619e31678a56a9d927b1fe703b125af4af4de9a9a07db6194d27b44d85a"

generic HMAC-SHA-512 Test Vector NIST CAVS #5
depends_on: POLARSSL_SHA4_C
md_hmac: "sha512":48: "42853d3d7744da227575bb4a4ca43a6347f9789f309": "208f0b6f2de2e5a5df11927ddc6df485edc193181c484d0f0a43a49541803010d4de9fdff798f93516a916f3a8207ed6e665fe3441c03b112eaa46954e6063f7a0e3e137f32b0d153fe94857fe914300a70e6820529adac2467469fd18af310e2a0f8ea27c9bdc83c5a9af77c364a466cfce88babeb2eb70be1": "fe7603f20b5b777fe0f14ecfe33e88068086d11ca459df5f3e366b1264ec30af5f0492a7521d8da3102ba2902975"

generic HMAC-SHA-512 Test Vector NIST CAVS #6
depends_on: POLARSSL_SHA4_C
md_hmac: "sha512":48: "8ab78d3d5ac32efa0d9c0a21abece955e96630d89": "1737e101dce389963d54418e97be4db9fa3cb2a368a52205a1ab8aadfd3b01f91a8e71717244fd2f26b40f5c0b9d9be3e25f7f06e8c758883b989dce6d749d9672fed222270e3e43eb3e0b196f70c125fc3bec6eed199e8ef08739f15f1733db0d581629ba187cc8ac1934bf7595f2b7616a6ed812946df694bd2763af": "9ac7ca8d1aefc166b046e4cf7602bee181a0e5055474ffbf5b342106731da0d7e48e4d87bc0afsd058715742890b09918"
generic multi step HMAC-SHA-1 Test Vector FIPS-198a #1
depends_on: POLARSSL_SHA1_C
md_hmac_multi: "sha1":20: "000102030405060708090a0b0c0d0e0f101112131415161718191a1b1c1d1e1f202122232425262728292a2b2cc2d2e2f303132333435363738393a3b3c3d3e3f": "53616d706c65202331": "4f4ca3d5d68ba7cc0a1208e9c61e9c5da0403e0a"
generic multi step HMAC-SHA-1 Test Vector FIPS-198a #2
depends_on: POLARSSL_SHA1_C
md_hmac_multi: "sha1":20: "303132333435363738393a3b3c3d3e3f40412423": "53616d706c65202332": "0922d3405fa3d194f82a45830737d5cc6c75d24"
generic multi step HMAC-SHA-1 Test Vector FIPS-198a #3
depends_on: POLARSSL_SHA1_C
md_hmac_multi: "sha1":20: "505152535455565758595a55b5c5d56f06162636465666768696a6b6c6d6e6f70717273
generic multi step HMAC-SHA-1 Test Vector FIPS-198a #4
depends_on:POLARSSL_SHA1_C
md_hmac_multi:sha1:12:701f04f12b415c8e2e:27dc5b1d1af60ef3e2f73d4d4a9c684f8f71f6e62a46793b1790afa4f6e100ca7aff2f6f05e01d6ed421ca8d4747afa2e795d3a0c828924c4d73b27e46bf295ed8daa3b6eacab3d4851687a6f812b79df26b20ff1f6706f5301790ca99625aad7391d84f780432d0a239b1477984c1577bb2977606e47a1a406b0612ca::"7f4c41eb8bb2d802fd3d05caf7cb092eef8d1a3a"

generic multi step HMAC-SHA-1 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA1_C
md_hmac_multi:sha1:10:7b10f4f12b415c8e2e::27dc5b1d1af60ef3e2f73d4d4a9c684f8f71f6e62a46793b1790afa4f6e100ca7aff2f6f05e01d6ed421ca8d4747afa2e795d3a0c828924c4d73b27e46bf295ed8daa3b6eacab3d4851687a6f812b79df26b20ff1f6706f5301790ca99625aad7391d84f780432d0a239b1477984c1577bb2977606e47a1a406b0612ca::"7f4c41eb8bb2d802fd3d05caf7cb092eef8d1a3a"

generic multi step HMAC-SHA-1 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA1_C
md_hmac_multi:sha1:10:4ef9f0902172a212a1b::4ceba37a1c13659c22f6e5113f03dce4c3293d181b63c6e08b59d367157fd05cabc98384f92fda482d2de7ae2e72eef1b1e388af496026c54233d484ecbbee87f904df55464f198567e3a5c323e6c2fcd332eb7682e63000524f078dbb2096f585007deae752562df1e3b01278059e16f3fe46e4d20f7cbac2d8e6c82a0c09534df5::"564a628a67be1924abf793"

generic multi step HMAC-SHA-1 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA1_C
md_hmac_multi:sha1:10:4ef9f0902172a212a1b::4ceba37a1c13659c22f6e5113f03dce4c3293d181b63c6e08b59d367157fd05cabc98384f92fda482d2de7ae2e72eef1b1e388af496026c54233d484ecbbee87f904df55464f198567e3a5c323e6c2fcd332eb7682e63000524f078dbb2096f585007deae752562df1e3b01278059e16f3fe46e4d20f7cbac2d8e6c82a0c09534df5::"564a628a67be1924abf793"

generic multi step HMAC-SHA-1 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA1_C
md_hmac_multi:sha1:10:4ef9f0902172a212a1b::4ceba37a1c13659c22f6e5113f03dce4c3293d181b63c6e08b59d367157fd05cabc98384f92fda482d2de7ae2e72eef1b1e388af496026c54233d484ecbbee87f904df55464f198567e3a5c323e6c2fcd332eb7682e63000524f078dbb2096f585007deae752562df1e3b01278059e16f3fe46e4d20f7cbac2d8e6c82a0c09534df5::"564a628a67be1924abf793"

generic multi step HMAC-SHA-1 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA1_C
md_hmac_multi:sha1:10:561677778797a7b7c7d7e7f808182838485868788898a8b8c8d8e8f90919293495969798999a9b9c9d9e9fa0a1a2a3a4a5a6a7a8a9aaabacadaeaf0b1b2b3::"53616d706c65202333":"bcf41eaeb8bb2d802fd3d05caf7cb092eef8d1a3a"

generic multi step HMAC-SHA-1 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA1_C
md_hmac_multi:sha1:10:561677778797a7b7c7d7e7f808182838485868788898a8b8c8d8e8f90919293495969798999a9b9c9d9e9fa0a1a2a3a4a5a6a7a8a9aaabacadaeaf0b1b2b3::"53616d706c65202333":"bcf41eaeb8bb2d802fd3d05caf7cb092eef8d1a3a"
generic multi step HMAC-SHA-1 Test Vector NIST CAVS #7
depends_on: POLARSSL_SHA1_C
md_hmac_multi: "sha1": 10:
1287e1565a57b547": ":390fddcc6171ce11568d85bf89f13e019bf4cd982ca9cfd21e7a730d41
bdf3fcccc88ff48ba13ca8f23deb2d96c1033e7b2a58c7a2b0c1e17bf03330db2d51e360f6a918009c4294db1215b5c6d
159af586c3d3d490eb7c3b9f887e8c98dbb274a75373dcb695a59ab021925d88518a9f692abc0bcbda985c388f
1fbbcc9": ":d78dd08077c7d9e2ba6"

generic multi step HMAC-SHA-224 Test Vector NIST CAVS #1
depends_on: POLARSSL_SHA2_C
md_hmac_multi: "sha2": 14:
8e5258b5b5b1623385eb9632a7c57d6": ":ada76db604be14326551701cf30e48a6ee
80bf4f0f944a4f7b1844f434b784a4a21007fd9c9d9e57387458ae9354899b620d0617eabaefaf9ef3d413a3362805433
c6e56c26fa98e60f1116351096b283101e7868871d776b370973c7405983f975b630053eaeb492cfd0e7e42e5c2e
15f6a6be8718ca05acc4e5717230": ":81c783af538015cecf3c60095df53"

generic multi step HMAC-SHA-224 Test Vector NIST CAVS #3
depends_on: POLARSSL_SHA2_C
md_hmac_multi: "sha2": 14:
85d402d822114d31abf75526e253870": ":8020d8d98ec22298b32879e5c17c51e1d5
5580e2eab8f158604297d60722261a16d83bb7c9c7b261b757c12699e9476211d61cad75d266a217ee8174b80
4849c9d60448a0a036a3ac8e28bf54bd75194362858d54f1579784a4c266b92e873ef66350215573d99be4089144b
383ad8f3222ba0e8f3bf0f8dbb2b": ":2aa03040ae9deafe3be38129dca0"

generic multi step HMAC-SHA-224 Test Vector NIST CAVS #4
depends_on: POLARSSL_SHA2_C
md_hmac_multi: "sha2": 14:
5456e6ee5c5ee46f1a7c59f91a9f81ae": ":8f7bf3565593170152dd2021874784e95197
7cfd22f8b72a72a61320b8fa3a536795e9137f178055599b1af81e3ee3ed42f7b884814ef4d276b71bdbec6ca7b5f01dc5d
20de5b7626d5edcdd65294db4dbd682e33d9a9255c6435383fa5f1c86s326a3acbc6bd50a33ab52dbb034ce0112d4e
226bbd57e3731a519aad78": ":3eb566eac54ca3a9ef092469f24"

generic multi step HMAC-SHA-224 Test Vector NIST CAVS #6
depends_on: POLARSSL_SHA2_C
md_hmac_multi: "sha2": 28:
4466abe4d433841a9750c7f1737df20fe": ":2534c11c7c89c9caea8f722f04adc7045c732
4d58e98e37ca9f4b6ed21ed7f58e55379ef24b72d6d40ee9154f96c614734be9c408e225d7ba4cecc1179c9f6e180
8e1067aaf82f4a99bd0c3265794e1887a40d167f87bf7c78db0d19977b01fc50b8c86dfef490df7a5135002c33e71d77a8
cce8e0f93e0580439a3373b": ":59f44a9bed4875b892d22d6b5ab"

generic multi step HMAC-SHA-224 Test Vector NIST CAVS #6
depends_on: POLARSSL_SHA2_C
md_hmac_multi: "sha2": 28:
0e3dd9bb5e4cf0f904c11600af56d8d": ":f4589fa7e6c328ea25cf88ae582026ba40a59d4
5a546ff31cf80eb828088f69bb954c452c74586836164dee90a5255bc5d56d3b405b3705a5197045688b32fa984e3a3df
generic multi step HMAC-SHA-224 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA2_C
md_hmac_multi:sha224:28:"cda5187b0c5db0f8e5a88beed2305684":"9011ee29a1449b347487ce972965f16ade3c15be0856ec9835a9739baba7e4f20df5949vdd1e21560a65a4e458ca17745575b91a5a30c7a9412ff8d1d689db9680d3d4228c758bb0d0c92dcd9445e8f44b840a197c52e3433ff45533945134398df6436513c0b6e9240468bc795a5bd92e8df52ed85bf3062eed67":"4aaba92b0e2a600feab176eb9b292d1a8486195c03342adad6f670f8"

generic multi step HMAC-SHA-256 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA2_C
md_hmac_multi:sha256:16:"cddfd34e46b16fdec":"d83e78999ba61b70690872b36e7a575603db742269cc5dd4e7d5ca7816266b5151c9e2632550cb4c5253ec885df5cee53bc4f74599a1d56527286c4a2a1a532d12e051314a9e04eb55b1801a7aaf5d478834c21645994d7369901aafef72545894355df5472ac702047980868bc86c5a600b4b014ede23590b4d11192373df84fe3":"c6f0ddede266cb4a26d41e8259d33499ce"

generic multi step HMAC-SHA-256 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA2_C
md_hmac_multi:sha256:16:"6d97bb589224258b":"13c2b391d59c0252ca5d2302beaafa88e4bcda779bb505ad9a122003dfae4c123ad2b03df6225cf4040021a6b91bb8df6028c1fce2631a732bdc71693c42ef6d52b6c9129ef77b3274eb85ad7f965ae6ed44ac17218962a884ec47acfb5434b1488b1c0c45afa4da8e8a1eb7b0a88a3240365d7e47d826abbde9f9203d99d7":"31588e241b015319a5aba8c4527296498"

generic multi step HMAC-SHA-256 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA2_C
md_hmac_multi:sha256:16:"3c7fc8a70b49007a":"6002e42a839c888bb2e9591b9ad9dc2115dbfd716b6beb7af30a6eb34560accebbfa47b7108a85d23ac7e1e5a5ba10f1e1e1a43556ed71f07ea4f33496f093044e8ca1d02b79e46eb1288d5964a7a7494f6b92574c35784ecc054e6151281d808222f7d478b231c35d07f5cb5cf4310d4c848485a016bfab514e048ecacaf9f":"1c98c94a32bec9f9253c21070821f438"

generic multi step HMAC-SHA-256 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA2_C
md_hmac_multi:sha256:24:"369f3f3858b927a07":"ae8e2a94ca386d448c8cbbdb0e9040a3e3c297c296363025cc157455da29a0c9587315fc11e3f12b81e2418ad1ae0c80bcbbb0ce04e7584ce9d14deeeab73c9b8daba958b04bba37551f6e9ba9c606be14ba8c4f4a3aa6e25078b766c512c6519b71afa7c7f57727180e1ff14c5a3ec1691b8f6ebad365c5151e8749d57adb3a4986e":"60b90383268533d09de46593e6ce39fc5f1b00a8828778c"

generic multi step HMAC-SHA-256 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA2_C
md_hmac_multi:sha256:24:"e5179687582b24dc":"ce103bdacdf32f614f6727bcb31cabe2824a850d00f5585b016fb234f1e1ed687f302d3ec6b738ed89a2406d65c36675d9d6307c72ef3e83bafa8402e226de9d51724ba75c4879bf41a4a465ce61874d9f4a347578494b8abe1c4e27bed76faae2ad669bca047747d409148d40812776e0ae2c395b3cb9e89981ce72d5c":"509581f6816dfb4b8cc9f2cf42b7cc66a5a1e375a16f2412"

generic multi step HMAC-SHA-256 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA2_C
md_hmac_multi:sha256:24:"63ee6246aeb1b61":"c178db908a405fa88aa2558cad22b4057016585f139ee930388
generic multi step HMAC-SHA-384 Test Vector NIST CAVS #1
depends_on: POLARSSL_SHA4_C
md_hmac_multi: "sha384": 32: "91a740181738697488c952f9a20ee55de": "2eaf5b91035d6d501f3a834fa17b8f4e46b99a450432a4d32e4466be1e778116f68a7137f3e036b30879020559f47bd1400a1a90e85e0dfcf0aa6c2686e29148b2380668f0285f1f493eda294c181a965465739c41f2268e88b8b471847c74b222277a1310bcd1c8a5ef1468aa1a3fd4031213c97324b7509e9050a3d": "6d7 bead940005f8cf413cc09fd043c2242ce4fa7859b13783000a9a593c9f75838"

generic multi step HMAC-SHA-384 Test Vector NIST CAVS #2
depends_on: POLARSSL_SHA4_C
md_hmac_multi: "sha384": 32: "dfcac19657061a9a0a6da11cd2e9e4a": "9f482e4655173135dfaa221a1b8be6a2f63db487164065a5eac162ba3c4b41cad4f5a91558377521191c7343118beee65982928029193d67b6de5e4b3d27299bd22219d5ad2efa5db9ff7b229fc4b3f60719320cf2e7a51cad11332d21bad2d80919b1836e8f25308b7c51c6b7677ac782e2bc30007afba065681cbdd215": "f3d5f3c0081753211a72e3a79ee4f8b9dce60f95ec940b8162f80a7dffe9f"

generic multi step HMAC-SHA-384 Test Vector NIST CAVS #3
depends_on: POLARSSL_SHA4_C
md_hmac_multi: "sha384": 32: "e06366e1ad49b84424dc41abddd0f0afde": "2d140a194e02a559f6f9174834679b8371234a0d505491fb03e128dd91a8bca2bfb182e9d5a716135b00592a78bf4f505db57547dea791359250857d3e6f52009e51ca3d88c6c99ed074b0e110736e0ec9a478bf93ef3b347bf1c4b54decece43eb077a3a4998e53f67b4eae36e677645f9643d5360bdc8337c70dabf": "c19c67ed6a62f92f667be1ec897c333ce7683094ae77e844bc16378d290895a1"

generic multi step HMAC-SHA-384 Test Vector NIST CAVS #4
depends_on: POLARSSL_SHA4_C
md_hmac_multi: "sha384": 32: "01ac59f42f8bb91d1bd10f6e990d7a87": "3ca1f18c476edd565f343ac7cb7d3a9da9e4ade7575672d5ba4ba8a8a7505539e2ac2124f75f5ec057be49e43480b3c71e7f4742ce3693aad115d03f90222b030fc304940313691716d530025808ce076274389b16f6d16983063e3c2eb126f2fd6f42fc7903344546b9ed25631f9066ed7ce7e43d1321b186db45e905622": "1985fa2163a5943fsc5d92f1f8831215e7e91f0f6f5332cb713a072b3a8f9e5c5157463a3bfe36231416e65973e64"

generic multi step HMAC-SHA-384 Test Vector NIST CAVS #5
depends_on: POLARSSL_SHA4_C
md_hmac_multi: "sha384": 32: "fd74b9d9e102a3a80fd1baf0cb35bace": "1a068917584813d16689ecbd0370c2114d537cdec8ce52b6f6d16553581f7d1ada0e850a9fa0cf62373f8b7428f1fe8164010d350721d79789d919e97248303992fcec2637783d38845675457865c03d4a07d741a505ef028343eb29fd46dd76f1f3792869998c1e53c2ac3bc7e6f08faed194b34f06eff5d4a5b424e81e0e": "a981eaf5de3d780b2ed4414a4edd05673667c608ad0bdc430cf7252f73a5b24efa136039207bd59806897457474e0c"
generic multi step HMAC-SHA-512 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C

md_hmac_multi:"sha512":32":c95a17c09940a691ed2d621571b0eb844ede55a9":"99cd2826e81f34878cdecbf4128e05e2098a700927a866f4c7857840de567f83f2b22b8e982d273b6273a222ece61750b4556d766f1550a7ade8f3faedbc4bdaac83fa560d62df17eb914d05fdaa48940551bac81d700f5ca7147295e3868e120d66742e6c5cee8d89a92217a0f6266ddkdc60bb20ef679ae8299c8502c2f":"6bc1397d156559ddec2ed4290e5a55c5f3e454a1059b7a72c7350e77b6e9333c"
gerenci multi step HMAC-SHA-512 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C

md_hmac_multi:"sha512":32":3b10b8fa718840d1dea8e9fc317476bc58557f5d":"f0f4f5b7073d7d0274e8354433b390306c5607632f5f891c2ed62d55673aaf23662e6b24de731ad9f2e654baa30b1cfd4a069788f65e1cb99b015d904d823110dbd74eae35a15162d14ee4136d820ad0a55ff5489ba678f8bce1c27663ec1349d70e740f0e0ec27f68e971819f4789e486b50a2d7271d77e2aaca50de6f2d":"fe3c3e8c7a17e3ce60db33f1c178266f0a00045bd55f2e234f71c82264f2a2"
gerenci multi step HMAC-SHA-512 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C

md_hmac_multi:"sha512":32":4803d311394600dc1e0d8f8c8cedeb8bde3fe7c42":"a10c125dd702a97153ad923ba5e98899fac1b169de370debe51f233735aeaeefcc97584cb5e7e48c477dc5c41ae6a9511588e26a094b42c2b9b406f3fcf016b24a24bd2e62bdf650a23bb4a7265b1100d7ce9a4dab697c6379754b4396e825de4b9e7f32e6a6c0d0353bbdeaf7066128000c137b858dfb30f3311ce6":"7cd8263e55102e6385f2279506df6fcc388ab75092da21395ce14a82b202f2a"
gerenci multi step HMAC-SHA-512 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C

md_hmac_multi:"sha512":32":aeb2f3b977fae8c8e71e07c5a5c74ff58166de092":"22457355dc76095abd46846b41cfe49a06ce42ac8857b4702c771508db362e0bfe851d897a07b36811ec3c3736ee4b16623601b3493e7440d4554b0ef6ac20f1a53c0e58fac8eaeba4e9f2d4898d8a827873b49cd26c9265fd7f8e4f4260c1e5284f12495145b72382aad90e153a90eae125ad75336fb128825c23b8b0":"fa39bd8fcc3bfa218f9de5a3b2ce10a7619e31678a56d8a9d927b1fe703b125af445debe9a89a07db6194d27b44d85a"
gerenci multi step HMAC-SHA-512 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C

md_hmac_multi:"sha512":32":4285d3d7775bb44ca346a3154f7980309":"208f0b6f2de2e5a5df119277dc6df485edc1193181c484d0f0a434a95418803101d4de9f9db7989f3516a6916efa388a2807de1666fe50fe3441e03b12eaaa6954ed0637a4c3e1c3f73b20d153f9e48575fe91430f0a70ee820529adac2467469fd18adf10e2a0f0ea270c0abc835c9a0e77c364a466f5eccc8e8ba4e27b0c1":"fe7603f205b2774fe0f14ecfa3e338e90608a806d11ca459df5e36b1b264ecc3af5f0492a7521d8da3012ba20927a5"}
gerenci multi step HMAC-SHA-512 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA4_C

md_hmac_multi:"sha512":32":8ab783d5acf32efa0d9e0a21abce955e96630d89":"17371e013dce839963d54418e97beb4b9f3abc3a2368a5205fa11b8aa0dafa3bde9ef17c717442df2bf640f5cb9dfb3e25f70e8b7c75883b899d0ed6749d9672fed222277cece3e48be3ec01b9f70e125cf3cebe6e19be8ef0873f15173bd805db81629ba187c8ace1934b2f75952fb7616ae6db812946df694bd2763af":"9ac7ca8d1ae0fc166b046e4cf7602be181a0e5055474b5f3b342106731da0d7e48e4d87bca66f508571574289a1b9098f8"
generic SHA-1 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA1_C
md_hex:"sha1":":"""da39a3ee5e6b4b0d3255bfe95601890af8d80790"

generic SHA-1 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA1_C
md_hex:"sha1":"a8":"99f2aa95e36f95c2acb0eaf23998f030638f3f15"

generic SHA-1 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA1_C
md_hex:"sha1":"3000":"f944dcd635f9801f7ace90a407fbc479964dec024"

generic SHA-1 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA1_C
md_hex:"sha1":"42749e":"a444319e9b6cc1e8464c511ec0969c37d6bb2619"

generic SHA-1 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA1_C
md_hex:"sha1":"9fc3fe08":"16a0ff84fccc7156d3ca3a744f20a232d1272253"

generic SHA-1 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA1_C
md_hex:"sha1":"b5c1c6f1af":"fec9deebfcfcedaf66ddad52e1be43597a73a1f93"

generic SHA-1 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA1_C
md_hex:"sha1":"ec2956124ed706b6eb30a1c371d74450a105c3f97355f7fa9fe38cf67f304a5736a106e92e17139a6813b1c81af3d3f9546ab4296fa9f7722826c066869edad73b2548031585813e22634a9da44000d5a281ff9f264cecc0a9312221622d21cc28dbf5f3c2aa24945ab131cb413ae29810df794cad5daf29c3eb38d19f8e4a1da2359780221405bd6712a53054ab3b7737cc7e2d1c0eb7728208235a9011":"970111c4e77b8cc88cc20459c0269b2a48f58217"

generic SHA-1 Test Vector NIST CAVS #8
depends_on:POLARSSL_SHA1_C
md_hex:"sha1":"5fc236fa7e97dc94be526e5166a238899d54927ce470018f9f6f6d8f9dd97cbf64e2c91584d01da63be3c9f1dfdf4de6fa3ac728e1e335593dce87f069172e323d094b47fa1e652afe465aa147a9f46fda33cabc65f3aad1243146b9007a8c85fe982afe7815221e43dba5538fe8a022cdac1b99eeeee35a59e5dd7e2382df4a619f359f4f72dc2343cd27daedea8e3859f47833988768065fb23665aba930d946135da04a4ffdadff14db18e5e71d93c3b9fa9f7f25e8194c4269b1ee3d993407979900259c3a0af6d35109f52335dd3959d38e485050e44b62355742c0102e8f7a306d6e8de6b6beccf80f37415b5f9f898a5824e77414197422e3d6a6080":"0423dc76a8791107d14e13f5265b343f2cc0ff19"

generic SHA-1 Test Vector NIST CAVS #9
depends_on:POLARSSL_SHA1_C
md_hex:"sha1":"0f865f46a8f3aed2da18482aa09af390dec9ad07d51d1bd10fe6b5f3928d5927d08733d32075535a06d1c18c1b2cde6baf02f633dceaf683e60cb756e293c915a9007ea536a07b518eccaa20a6c31b466b76f021620ef3cf67e9640840380e5ab9c558ebfc5c1c9ed29747228f8ab3698f1fb282a5038f3581a5767a3a0727d1677343f00850c8ec428c7f22f1e9f1ff99850e844845b06a06ceeb9c0cecf83eb55a1d4ebc44c2c13f6f7aae0e08abfd84e7846279057abc471ee4a5dbb5774afa2e51791a0eadaa11039b88681e30bba3b2e94133dc63342c51a5da60960897b626e4

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generic SHA-1 Test Vector NIST CAVS #10
depends_on:POLARSSL_SHA1_C
md_hex:sha1":""2836153781bd2f1b81ffe0def1ceb5a258839476f5f6c99e9c65001f2e70476dc2e8197ea19cb4e242339b
cb23f77a3eae5c096f9b3090c51e6eed6204b735aa717e996d38080822edfd34683af9c7442498acbae6a4842fdd4
238cb099927c6efa07fd7b23a4e4456e50152b24853fe0d5de4179974b2b9d4a1c6bebcfc01d8d311b55d5059136176e
a6998a82acaf20dd490be47130b1235cb48f8a6710473cfc923e222d94b582f9ae364dca2a32d141b88ec86638845fbc4
99bce17698c3fe9ca2572dd470552430d7e30c23c8c21244781f7f804838399f4bf737d3a9460206824a5b6b653152
b1e3c2f24c97ee7c0e78faad3df549c7e8af9e2418769d9aaf9e3096fa3522becc2a92e8da392899ba67dfed90aef33d4
f1c2494b765cb3e2422ce8e595dbbfacea2177575453f3b22a13203f425f6073a9903e2de5818ee1da737af345f0057744e
3a5f6e1681949ebc12273a3bfc20699e423b96e44bdf662eb50a848a890809bfee1611c6787d3741103308849a790f90c
150982866dbacfc34c1e17182eb2b77e32194a75da37959a320fa68764027852855a7e5b5274ebe12bc2d72716db8b59ad
24582015f48a88a245c0ed59b9e949fa03d79376048570d6e3f63b1770be98db78e1bb1708d872b6259da9b06c
185ebdbf34399391f08aa2e6ec0ada77ff4c8ec97b52cb9942f64bd2b835cd1cb39d567aaeb42525467b0be267235651
a1ed9bf78fd93d3c1dd077fe340bb0b400529c584f5124b717c168d07e9286e33376988bc5cf62345c2009980a4dafa69f
bc7e5a8b1bb20a5958ca967acec68eb31dd8fccc9afedc30a26bab26729f1fb67f24f":""11863b483809ef88413ca9b0084cc4a5390640af"

generic SHA-224 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA2_C
md_hex:sha224":""d14a028c2a3a2bc9476102b28822834c415a2b01f828ea62ac5b3e42f"

generic SHA-224 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA2_C
md_hex:sha224":""effe33f9d75e6ae1369dbabf81b964591a46bba30b591a6b6c62542b5"

generic SHA-224 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA2_C
md_hex:sha224":""984e":""2fa9df9157d9e027cfbce46a9df32e1adc0cbe2328ece2a63c5ae934e"

generic SHA-224 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA2_C
md_hex:sha224":""50fd0":""b5a9820413c2b8f8211fbb5d5f1337043b32fa4eaf6f1a0c8e9ccede"

generic SHA-224 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA2_C
md_hex:sha224":""e5e09924":""fd19e74960d291467ce59f077df31163851c3a46e510d0e49a67062d"

generic SHA-224 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA2_C
md_hex:sha224":""21ebebc914":""78f4a71c21e694499ce1c7866611b14ace70d905012e356323e7c713"

generic SHA-224 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA2_C
generic SHA-384 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA4_C
md_hex:"sha384":"8f05604915":"504e414bf1db1060f14c8799e25b1e0c4dfcf1504ebbd1299980f0e283e6de86e0d3c7e879c73ec3b1836c3ee89c2649"

generic SHA-384 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA4_C
md_hex:"sha384":"665da6eda214":"4e022f112010908848312f88f1072625fd5c105399d562ea1d56130619a7eac8dfc3748fd05ee37e4b690be9daa99980"

generic SHA-384 Test Vector NIST CAVS #8
depends_on:POLARSSL_SHA4_C
md_hex:"sha384":"7f46ce506d593c4ed53c82edeb602037e9485bfbe03f7f930fe53d218ff2a3f5f6d076672c8145a1b4f04d0d94f7abab47c9a7c12342132d1069c2dac0b0a1a2557a672b245960ae55bd50315c0097dada3181745788d70d14706910809ca6e3962377fe4933aaf69fce782d6660d8d6b6d283bd11650313ec9c24ef084b978f9199f99d4c6ed19af029e431a7272a1bba4266e60f10dce2860145aacc6eb799e4db62bd483322f8a32ff7f8ede3957df0ce108711e4e60f0d4afe89360af9b6c6f6afe8b3962d18f474eb178c32625c468bf2f1ba714a99ea297dfcfaba0f1028abb72989bb545b691b5664ec6d09a8f51be19947ec5b7ea76db638d01141953ba7d84a5401679fa7b0a44db198f1864d3535c45af4e6c1183d5b0bad51fa7e1c0a7c34240283959f7530a32c709d5a08e501c230059f33b0607820209e7e21203ef2293580d3f11ac8e8f77f5f4326df54f7d11d28d871ad9a7d808994ce8785301295b8d69a7623b8807982e79cd36aca62478f8dc47f15c1adacc618665de3dc205a9071b2f2191e16c5ac5bd89bb59148fc719633752303oa0e851dbdc389f9a05482c44a5c057b8729a6f3eddd061f1b93026cece6399f51971cf7381d60e144a5928c82ed1ad7467b105da2202f4f3234e1af19a0198a28982d1c2d52311c721e3fdcab30214dc3acaf8c433880e104f6b3f2d7cfe9a7978578197a7e0acca8e96e19f6e4f8f68cf8e9916ed7e0c151147449449f94f2ae50f30e1ce9a42d2b6ce5188d133d3cbbf69094027b354b9295ced0f7dc5a87d7363db89e6ebf0038ca0fa6a9cb8cb35aa12510e5e07ada8789047d0b63841aa1bb928737e8b0a0c33254f47a9a8bfe3341a09c2b76dcbeca67e30d3f00347b5845c468fe951b56bcfe6c66f883589a46306bf7f163f02924e807e75457e83b2b50ca859903cb484574aaa31b2c94f632127d537c33ee3141b5db96d10a4e505ae450f25872107757710d684e04b920279e87dd9a566cbda1f584a77a7f63935e1de003090cd276aae87768cb04d6a6bb0e090953443873c2b4d0d008853d38d19beaba46e6100e307ef61bce7c2906b20244ff981ab5c8448d68463aca6b3f4585b33eaa44785676e5b15b83844cb238294f6b04b08d17878ee2e3f740fca6b24395b05e5c8e6868082b24d29efb2d3c2903d159f4504b1d3b3d9361eb54f8bd242e66c39a094f4ce6f28f5639f36d56c8ae0c74af4ce1d0709b183a43472c2aa20225f86c8d68146df07386e628484ec6077515c08e2646e62a273e3355169bd708d5610ef37c4c306ed040aa6a0409c3e6de715e8a4cda1747772484cf5c56b81313927be8387b1024995e9f8c87f8710f299091c01424bdce29b29c6ed2ad75b3e762a0dc2dc2d772df91db97c5984305265f3695a75472f2d729e68c27914ff1f82a8dd5fe4e2343f350a967a3f98626oa091552f5dd0ffa2bf10350d23c96256c01dffeb2c2e612519876f877e4929e6e9f5f15040f1485e22ed1e1419880323ef5b73848f15b1766a5552879d8f069e";"cba9e3eb12a6f83db11e8a6f4f0d1049854ee094466c527fefa931d8585428a8ed242f3ec18f6796b36e2123a5c23483e"
generic SHA-512 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
md_hex:"sha512":"e724":"7dbb520221a70287b23dbcf62bfc1b73136d858e86266732a7fff8a75ecaa2c1b8f6735c065d360c563a7b95393495f59be8c0c593f9587e3cd50bb2a23"
6cecbfa728e1a6d0b821ed22fcd309ba91a4138bc9

generic multi step SHA-1 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA1_C
md_hex_multi:"sha1":"da39a3ee5e6b4b0d3255b6ef95601890af0d80709"

generic multi step SHA-1 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA1_C
md_hex_multi:"sha1":"a8":"99f2a95e369f5c2ac00af23998f0f30638f3f15"

generic multi step SHA-1 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA1_C
md_hex_multi:"sha1":"3000":"f944de6d35f9801f7ae90a407fbc479964dec024"

generic multi step SHA-1 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA1_C
md_hex_multi:"sha1":"42749e":"a444319e9b6cc1e8464c511ec0969c376bb2619"

generic multi step SHA-1 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA1_C
md_hex_multi:"sha1":"9fc3f6e0":"16a0ff84fccc156fd5d3ca3a744f20a232d172253"

generic multi step SHA-1 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA1_C
md_hex_multi:"sha1":"b5c1c6f1af":"fec9debfcedaf66dda525e1be43597a73a1f93"

generic multi step SHA-1 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA1_C
md_hex_multi:"sha1":"ec29561244ed706b6b30a1c3171d74450a105c3f9735ff7fa9fe3c8ff7f30a5736a106e92e17139a6813b1c81a4f3d3bf9546ab4296fa9f722826c066869edac7d3b2548035185813c22634a9d44000d95a281fff9264ecee09f3122162d021c2a82db5f5c2a2a24945ab3e131c41e143e29810f794cad5dfaf29ece43cb38d19f8e4a1da2359780221405bd6712a5305da4fb737f7ee7cd21c0eb7728d08235a9011":"9701111c4e77bcbc88c024059c02b694ba4af85f8217"

generic multi step SHA-1 Test Vector NIST CAVS #8
depends_on:POLARSSL_SHA1_C
md_hex_multi:"sha1":"5fc2c3f6a7e79dc94be526e5166a238899d54297ce470018fbd6f689f9dd97cbf64e2c91584d01da63b3ec9c9df8a8f7c3ac728e1e335b9ede87f069172e323d094b47fa1e652afe4d6aa147a9f46fa33ac6b5f3a12234746b9007a8c85fe982afed7815221e43dba553d8fe8a022cdac1b99eeeee359e5a9d2e72e382dffa6d19f359f4f27dc3434cd27daedda8e3859487339987806058bb23665a9a9309d496135d0e44af9adff14db18e85e71d9d3c3bf9afa7f25c8194c4269b1e3cd43934097ab990025d9c3aad63d5109523355d3959d38ae485050e4bbbd235574fcaf012be8f7a306d68de6ba6becf80f37415b5f79898a5824c77414197422be3d3a6080":"0423dc76a8791107d14e13f2565b343f24cc0f19"
generic multi step SHA-1 Test Vector NIST CAVS #10

depends_on: POLARSSL_SHA1_C

md_hex_multi:"sha1":"8236153781bd2f1b81ffe0def1be46f5a70191141296651503f13b3b1016acbde9f7f7aced8dd
168226f118ff664a01a8800116fd023587bfba52a2558393476f5fc69ce9c65001f23e07476d2cc81c97ae19caeb194e22
4339bcbb2377a83feac5096f9b3090c51a6ee6d204b735aa71d7e996d380b80224e4dfd34863a9e7c44294acaebeaf64
2dfda238c909927c6eaae07fd77b3a4e4456e0152b248536e0d5de4179974b2b9d4a1c6becfbee01d8d31b15dda05913
6176ea698ab82ac2f0dd490be47130b1235cb48fe8710473cf7c923e222d9a58b2f89a363dc2a32d141b8e8ccc663884
5fbc999bce17698c3feace2572dbbd4705524307ef30c238ce2124478f1f708483983f947393639460206824a5b6653
15b21e3c2f24c97ee7c0e78faa3df549c7ca8e1e241876d9af9ea9a309f6da352bec2a9e28e0ca392899ba67fedf90ae
33d4f1c2494eb765cb3e2422e8595dbbbfac2a177757453fb322a13203f425f060739a9903e2dc58188ee1da737afc3f45005
7744e3a56e1681c949eb12273a3b3bc26099e423b9b6e44d1f16e2e0a848a890809bef1e0116c6787d3d74110330f849a7
90f9c01509826dfbdcac34c17185e2b77e3c3219495d7f6d637954a320fa676b764072756585a7e5b5274eb42ebc72d716d9
8b59ad245822015f48af82a45c0ed5b9e94f9a03f9736408570d6ef3ebf177cb0c98d87b77e484f1b1b708d872b625d9
ab9b06c1e85dbbb34399391f08a526e0dace71f48ce8c97b52cb92f4a662385dcd1b3b9d567aeae42d56d6b0ebe267
235651a1ed9b78fd93c1d0d707fe340bb04b00529c5b4f5124b7171cbe168d07e9823e3373629888bc5f62845ec209908a
4dfaf69b7ce5a0b1bb20a5958ca967aee68e3b1dd8fc98af6c93dc30a26bab26279f1b6f724f8";"11863b483809ef88413ca9
6b0084ac4a5390640ftf"

generic multi step SHA-224 Test Vector NIST CAVS #1

depends_on: POLARSSL_SHA2_C

md_hex_multi:"sha224":"d14a028c2a3a2be9476102bb288234c4152a0f1f828ea62ac5b3e42f"

generic multi step SHA-224 Test Vector NIST CAVS #2

depends_on: POLARSSL_SHA2_C

md_hex_multi:"sha224":"e33f9d75e6ae1369dbabf81b966b4591ae46bbaba30b591a6b6c62542b5"

generic multi step SHA-224 Test Vector NIST CAVS #3

depends_on: POLARSSL_SHA2_C

md_hex_multi:"sha224":"984ec":"2fa9df9157d9e0297b43fbc4c6a9df32e1adc0cbe23282ec6a35c9e34e"

generic multi step SHA-224 Test Vector NIST CAVS #4

depends_on: POLARSSL_SHA2_C

md_hex_multi:"sha224":"50ef0d":"b5a9820413c2bf8211f6bf5df1337043b32f4e4af6a61a0c8e9cceede"

generic multi step SHA-224 Test Vector NIST CAVS #5

depends_on: POLARSSL_SHA2_C

md_hex_multi:"sha224":"e5e09924":"fd19e74690d291467ce59f077df311638f1e3a46e510d0e49a67062d"

generic multi step SHA-224 Test Vector NIST CAVS #6

depends_on: POLARSSL_SHA2_C

md_hex_multi:"sha224":"21ebecb914":"78f4a71e21c694499ce1c7866611b14ace70d95012c356323c7c713"
generic multi step SHA-224 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA2_C
md_hex_multi:"sha224":"fd4f339d332b2b79cd6e99137ed91198c7e71305ffdf539b332d9"
md_hex_multi":"sha256":"81a723d966":"7516f88b011350d2f2bf386bc3c33bd0f52cb4c676c64745e0488e62c2aea2605"

generic multi step SHA-256 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA2_C
md_hex_multi":"sha256":"8390ecf0be07661cc7669aac54ce09a377333a629d45f5d983ef20119b2d13800e555d9db1097fe3cbb783d7a50dceb5e26449b6a1e946f177cf34906bf38ff66db5c2deee0a43e0283f764a97e3bb37a034fe2c2c259214afa99babaf1160abaa7e2c20ce09e69b32fe08bce474694375aba703fadba3f168f5b0a11c573fcf4ed3d2e1573daee6b1133c8260ce75b9224f47a20b25249add2e2e62f817491e482e152322e09000355adc8d04a98f82e961a0d6cf537b7b410ef105f59673bf877bf042aa071fa6f8d944d27371c64160fe93827723727516c230c1f450d6b6cca7f274b394da9402d3eaafd7373994ecc58ab22d271829a983995744db5980a447a5a681c0bd05aa31453111d9222a16de1ead6a5499f2dceb4ea694772ce90762ef8336afe6ec53aa9b1a1c4820b221136dce808dce2ba92088a530c9410d4a0d4538a3a11052e58dd73b0b179ef8f56fe3b5a2d117a7a0c38a1392b6938e9782e0d86456ee4884e3c394dd75813f13633bc79ba0a7c0d2d555afbf207f52bdca12d6015a2b9873b3eb65e90b9b065a5373fe1fb1b2d05943271919b5e6cb81e7b6696605f5f5e5b3a2c7438697ce21b0210fd7e09f18deea1b3ea2f01d1ed02d0f03869441a4541ded613c32de605641c948b714aee3c0649dec441351f135ab0fd5dd64c34d60f6e86f3836de9edeb7f08cfc3bd049568263562421919f53473f32b0c0cf9321d6c92a112ed8b09b86ee9e97cc3520343dd01e32ee9f8782cb24efbbbeb4f40fe929e8f8fd8f1550a3a2e7428eb45a3e53709e6aa7982417acc0f772a767feae0f07987b8de46cdefedaef304774f87e07f0a0e42c5f1d10d405f8983d7574425b72d2bc38b45c443008b58980e768e464e17ce6f6b3939eee52f713963d07d8ca4ab2f0488ef08b899671e2f8a436d6deeecc7a7176e9bf9d1005ec5d377f2af67c23ef113e60f64b01886b763d1038e83704f2c6e798969df35ec7bb2c64a4df8910bd82fa3ced2d5f0a3b6d399e42451d4d233da21b512deb66536198f131a51a1ed46a5b9a174add1d19ff55444d11c16f3d585038ce0e71a11a7e1578a5a6a8d4c7e88d75e7009a8b2d6f733f2a07f1e0c259f8f9533b9b89af9288b727421baee87d39f68babacdce22471207df9be4f3cde3fde5e5a2214ff5e51c53f5e21ae69e65fie18ed733a8e06150f419e599e4b373ce643f810faana47989771509df69a110ac9162612470263621263caac4606b4f7088aa28599856db7cb6a436e03d64a9690807e76c5f312b9d1863bfa304e8953647648b4f4ab0ed995e044109cdbe63240a2d74cc6c37f9300f70f0fede1e6e2efc7717865998714aad0b5e05e

generic multi step SHA-384 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C
md_hex_multi":"sha384":"38b060a751ac96384cd9327eb1e36a21fd71114be07943400cc7b6f36fe1e2a74edefbe76f6f5fbd51ad2f148989b95b05e

generic multi step SHA-384 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
md_hex_multi":"sha384":"ab":"4b94d5be118865f6fcbcb978825ad82ce2f188faec2f66cb842b537d749384695845b0ca89e66fa2e188234736629f3d05e

generic multi step SHA-384 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
md_hex_multi":"sha384":"7c27":"3d780be467df86d63abb9ea1d3f9eb39c39d19890e7f2c53a6200bedc5006842b35e820dc4e0ca90ca9b79ab23ef07080fe05e

generic multi step SHA-384 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
md_hex_multi":"sha384":"315ca":"78d54b943a21f1df7ba907fb6937c2073aa480454b84d139f72f4511fe2f1b67797b652c08c23229342873d3bef95505e

generic multi step SHA-384 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
md_hex_multi:sha384:7bdee3f8:8bdafba077ee4e46c3431c2d7b1fbb631089f71d2ca417abc1d230e1aba64ec2f1c18747a6f4077d372c14ad407f99a

generic multi step SHA-384 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA4_C
md_hex_multi:sha384:8f05604915:504e414bf1db1060f14e8c799e25b1e04dcd1504ebd129998f0a2836e6de86e0d3c7e879c73ec3b1836c3ee89c2649

generic multi step SHA-384 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA4_C
md_hex_multi:sha384:665da6eda214:4c022f112010908848312f8b8f1072625fd5c105399d562ea1d56130619a7eac8dfc3748fd05ee37e4b690be9daa98980

generic multi step SHA-384 Test Vector NIST CAVS #8
depends_on:POLARSSL_SHA4_C
md_hex_multi:sha384:7f46ce506d593c4ed53c82edeb602037e0485befebee03f7f930f532d18f2fa3f5f6d0676672c8145a1bf40dd94f7a9ab47e7c1243213d2ad1069c2da0b0ba15257ae672b8245960ae55bd50315c0097d3aa318745788d70d14706910809c6e396237fe4934fa46f9ce782d6660d8d6bd2b831b1160513ce9c24e9f084b97891f994dcd3e619a0243a3c772ba1ba426fece0f1d8e28601e41accee6b7994ed62b6d47832281a32f7e80ed3957df50e10871f1406e08df0fe8ca3960a9bce64e8aeb3962df18f474eb178c3c265e4c6b8f2ff5a17a7499eac297dfcabfab01a21babbdb829b2b354b691b5664ec6d098af5b1e19994ce5b7a7ed66380d11d14935b7a8d44a5401679fa7b0a44db1981f864d3535c45afae4c1163183db0ad5f1ae71ca0e73424208395f7530a3270d95a088e501c23005f933b3b670825009e7e22103eef2f2935830df11acfe8f77f51f426d547r1d128dd87l1ad97d08894e0ec8712013295b8d99e6723bc88087c7dc6ad26cd478f8dc4775e0adc6186656d3cde2059a07f2f1911e6cc5b5d898b591487c1769337523oa3a08e51db389f0a5482caaa4c07b8729abf3ed306feb930620cc6e399f51971c7f381d605e144a5928e8c2d1ad7467b05a2f2024ff32341eaff9a019b2a8685721d3c2d5231c1721e137dcbaf303214ed3a3aff8e33880e104fbd3f2d7ce69a978578198a7a0ac0a8e1969764de8f68e8f8e919e7e0e151147d49449f942ae50f30e1e77a942d2d6c5188d3133dcb6fbf909427b3549b409c0d7fc5a87d73638db89e8fb0b0038ca0f4689d8cb35a12510e5e07aad8789047d0b63841a1b928373e80b0a0c332549f47a8b8fe3c431a09c2b76dcbceaf7e30df30d43f7b8436c4f869e951bb6c6ec6f8b238359a645306bf7f63f0224e087ec7457e483b6025a859903cb484574a3a3b12ef94f632127d537ce33be31415bd96d10a4c158c50ae045f2721075770d686e04b20279e87d9a566b6da1f584a778f73953e1ideee0309cd276a7e717c6bb04da6b0be0e90995344387332eb42d0088853d38d19beba46e61006e307ef7db1c729006b2044f1898a1b584c486d8b3c4a6bab3f485b3acea4a45758e651b5b83484cb238294bf3bf4dbd81788ee2fe3f74bfca624395b05ec5e86860822b4d29efdb2d3c29031d59f405f401b3d9361eb5ffbbadb242f66c39a8094cf62f5f863f9f6d5f6c8ae0c74a8f4fe4c6e1d70b9183a4347c22aa09313f59db6cd86146d6f0378ed62f8484ec69077d153c08e26c466e2627e3355169bd70d85d610cf37c43c06e0d4befa0b040a9ec36de7e1e588ad1a714774c8244fc55566b81331927be8387b1024f95e9f87871029091c014024b2d2b96c2e297dbd7523b6e2d0f2dcd17272ddfd19b79c598305265f3695af75472f2d72c94d68c27914f14f82aa8dd5fe4e2348b0ca967a3cf8962a09155525df0ff2af10530d23e996256ceb013debbf2c2e621529196f8779429296e9ff5f1040ff145822ed141198802322f3e8b573b348f415b17676a5552879d8f067e2cb9e3e9b12a6f38b11e8a5ff640d1049854e094416bc527fe9a31d585428a8ed6242ce81f67e9b36e2123a5c2383e"
depends_on:POLARSSL_SHA4_C
md_hex_multi:sha512:"8f":"e4cd2d19931b5aad9c920f4f5f6f6e34e3d38c6d319af6e11d0588ab8b8838576d6ce6d68ea7c830de66e2b96458b7aafa2bcbe981d4ed040498c3ddf95f22a"

generic multi step SHA-512 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
md_hex_multi:sha512:"e724":"7dbb520221a70287b23d6c62bfc1b73136d858e86266732a7f77fafa875e0a2c1b88f673b5c065d360c563a7b9539349f5f5f9b6ef8c0e593f9587e3cd50bb26a2311"

generic multi step SHA-512 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
md_hex_multi:sha512:"3e4c90":"33ce98281045a5c4c9df0363da1896f1d7d7f5e5a4eac87977fd8a43b4e12f123a6e788af5bd41ceff1941aa5637654b4064c88c14e00465ab7a9a26c9e79e1014"

generic multi step SHA-512 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
md_hex_multi:sha512:"e724":"7dbb520221a70287b23d6c62bfc1b73136d858e86266732a7f77fafa875e0a2c1b88f673b5c065d360c563a7b9539349f5f5f9b6ef8c0e593f9587e3cd50bb26a2311"

generic multi step SHA-512 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA4_C
md_hex_multi:sha512:"94390d3502":"b6175 coveted4c6c76f90ce5f03102086e6a634d43673f942ae42483f9cbb7da8176e411b5d8e25a3d9d721a22cdfe1c40411445df1911fa5506129b69297"

generic multi step SHA-512 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA4_C
md_hex_multi:sha512:"49297dd63e5f":"1fc1e66f6870859dd1649f5e53369a6cd6329e029baf04d5a5ed6e25878892a8e9522ba497dd656bba4020a61307c4ee382e8e89380e8e66e676979f14e39f650fa94"

generic multi step SHA-512 Test Vector NIST CAVS #8
depends_on:POLARSSL_SHA4_C
md_hex_multi:sha512:"990d1ae71a62d7bda9bfaa1762a68296ee72a4c94f628738989f8b0c02ea94f1d8d499103034d27a637ce501a38a34b95e4ab17b8999a3e784c7968e67c0f552006b0626b8f76d9191327524f2cc51aeb56a4f83d1b06e0c6e5899ef0fe4fa2829384a8547e9ad9b09d0932526873a191ad4ae5a7e7767946c742f834793fd2dfe7afe46c63af4b70f5d1b6e41834e72ee40ed6b072b2a794990c288d500773f13499f3b83af6a756b301add6e5e0a8cd614399bba3a52376b1575a5a6bdaafeaf286bc6b4ab91edef976c326bce1113d107f9a3a0905098a105043c2f03597f702514439af0a89e59dcd019610721d45c8f817d2ed659376f8a00bd5cb9a0860e26d8a29d8aaf52de97e9349036d32a220d5a35d2ba97c2b0b30c2d2d18c35f2a595cc49e7e640e5d7d8d060569a28d66ef1iad5f9144bb21e3daa13bf31244fbc7d7d000420eff0f5f5f41e83cd7f5bb37c9ae21593f3e302b0f0e8686f8a91c6a899265c64b2fd9cd442e043211bd6d71933276c6f285e202422a6a5e2c2b765d9f3dd0d728ef6a6a9d3e2ce2206784a542e2c36367f41b6f4474e58a86e56b43ef817932f17a4dbfe2e04b2e82e27cd23d6cfba4095f0e036a32421fa0263f5e2ee0b38135f41a2ec2e02f16eb45f8e3b13b8aab9e15a576ee10694188910861ca1f2057cada19419b2848693f2e4f4fe0384c2aef72a4522aefd33e7679df71e1fleece8469349a1e8c6b36c35z23c33a0a2c800b99e62f6d59b3a2fd6e9eb053999ed138ce4833e9319ed9f85aefab65b3422f6ebb83ff1d1af4b24265f5f0c616c6de7d7e4770f78e9bf6ecf9f29a1f78ef1e9f889b2d345ca74999db45c42f5a5d951ae1a6b5a4851889730a3b2b916e96512a6e90214b49791f41db7e7c707b8a5d7b10e4ac77b629eb412575750530e57828ac276cf6d7862727af246ae17addde50c670028d572c7b0ebe2f882eb2b8fa68ad7b4c6c2a239c46041bf5eaa09f923b08563b4e47729a59e5986a61a6093db5df483c

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ebe87eda01f251cb060ad1364ce677d7e8d5a4a4ca966a7241cc360bc2acb280e5f9e9c1b032ad6a180a35e0c5180b9d
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d6e97ed3058d91d";"8e4bc6f88b8c60fe46d68c61d9b159c8693c3151c46749af58da228442d927f23359bd6cccd6c2ec8
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generic SHA1 Hash file #1
depends_on:POLARSSL_SHA1_C:POLARSSL_FS_IO
md_file:"sha1":"data_files/hash_file_1":"d21c965b1e768bd7a6aa6869f5f821901d255f9F"

generic SHA1 Hash file #2
depends_on:POLARSSL_SHA1_C:POLARSSL_FS_IO
md_file:"sha1":"data_files/hash_file_2":"353f34271f2aef49d23a8913da6bd82b2cecd6"
depends_on:POLARSSL_SHA2_C:POLARSSL_FS_IO
md_file:"sha256":"data_files/hash_file_3":"9ae4b369f9f4f03b86505b46a5469542e00aaff7cf7417a71af6d6d0aba3b70c"

generic SHA-256 Hash file #4
depends_on:POLARSSL_SHA2_C:POLARSSL_FS_IO
md_file:"sha256":"data_files/hash_file_4":"e3b0c44298fc1c149afbf4e89966fb92427ae41e4649b934ca495991b7852b855"

generic SHA-384 Hash file #1
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file:"sha384":"data_files/hash_file_1":"e0a3e6259d6378001b54ef82f5dd087009c5fad86d8db226a9fe1d14ecbe33a6fc916e3a4b16f5f286424de15d5a8e0e"

generic SHA-384 Hash file #2
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file:"sha384":"data_files/hash_file_2":"ef1727acf8495ec92e2f370f97a317f93c3350324b0646b0f0e264708b3e97d3d332d3c5390e1e47130f5c92f1ef4b9cf"

generic SHA-384 Hash file #3
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file:"sha384":"data_files/hash_file_3":"6fc10ebda96a1ccf61777cac72f6034f92533d42052a4bf9f9d929c672973c71e5ae1213268043c21527ace0f7f3494c4"

generic SHA-384 Hash file #4
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file:"sha384":"data_files/hash_file_4":"38b060a751ae96384cd9327eb1b1e36a21fd7b1114be07434c0cc7bf63f6e1da274edebfe76f65fbd51ad2f14898b95b"

generic SHA-512 Hash file #1
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file:"sha512":"data_files/hash_file_1":"d8207a2e1ff2b424f2e41363fe1b723c9bd42e464061eb411e8df730b2d24a7ab3956a6f3ff044a52eb2d262f9e4ca6b524092b544ab78f14d6f9e4cc8ddf335a"

generic SHA-512 Hash file #2
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file:"sha512":"data_files/hash_file_2":"ecbbf7f0ed8a702b49f16ad3088bcc06ea93451912a7187db15f64d93517b09630b039293a1d418d4a00695777b758b1f381548c2f7b92ce5ed996b32c8734e7"

generic SHA-512 Hash file #3
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file:"sha512":"data_files/hash_file_3":"7cccb9b2da71fde9966e3ce44df20945f3c1fa4ed4da152b021f1afcc7293382944aaec09eac67af25f22026758e2bf6bed86ea2a43592677ee50f8eaa41"

generic SHA-512 Hash file #4
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file:"sha512":"data_files/hash_file_4":"cf83e1357eeb8bd1f542850d66d8007d620e4050b5715dc83f4a921d36ce9ee47d0d13cd85f2b0ff8318d2877eccc2f63b931bd47417a81a538327af927da3e"

Exponent: 65537 (0x10001)

X509v3 extensions:
X509v3 Basic Constraints:
  CA:FALSE
X509v3 Subject Key Identifier:
X509v3 Authority Key Identifier:

Signature Algorithm: sha1WithRSAEncryption

-----BEGIN CERTIFICATE-----
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MA8GA1UEChMIaUG9sYXJlEUxDTAqMLBQYJackAtgGhUqXzABBgNVBAgTEFBvbGFyU1NMI
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-----END CERTIFICATE-----

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<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" ToolsVersion="4.0"
xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
  <ItemGroup Label="ProjectConfigurations">
    <ProjectConfiguration Include="Debug|Win32">
      <Configuration>Debug</Configuration>
      <Platform>Win32</Platform>
    </ProjectConfiguration>
    <ProjectConfiguration Include="Debug|x64">
      <Configuration>Debug</Configuration>
      <Platform>x64</Platform>
    </ProjectConfiguration>
    <ProjectConfiguration Include="Release|Win32">
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      <Platform>Win32</Platform>
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      <Platform>x64</Platform>
    </ProjectConfiguration>
  </ItemGroup>
  <PropertyGroup Label="Globals">
    <ProjectGuid>{EDF3B291-9D85-49EC-8CF4-27EA9096BCCB}</ProjectGuid>
    <Keyword>Win32Proj</Keyword>
    <RootNamespace>ssl_server</RootNamespace>
  </PropertyGroup>
  <Import Project="$(VCTargetsPath)\Microsoft.Cpp.Default.props" />
  
  <PropertyGroup Label="Globals">
    <ProjectConfiguration Include="Release|Win32">
      <Configuration>Release</Configuration>
      <Platform>Win32</Platform>
    </ProjectConfiguration>
    <ProjectConfiguration Include="Release|x64">
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      <Platform>x64</Platform>
    </ProjectConfiguration>
  </PropertyGroup>

  <ItemGroup>
    <CIClompile Include="..\..\programs\ssl\ssl_server.c" />
  </ItemGroup>

  <ItemGroup>
    <ProjectReference Include="PolarSSL.vcxproj">
      <Project>{46cf2d25-6a36-4189-b59c-e4815388e554}</Project>
    </ProjectReference>
  </ItemGroup>

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    <ProjectGuid>{23E3B291-9D85-49EC-8CF4-27EA9096BCCB}</ProjectGuid>
    <Keyword>Win32Proj</Keyword>
    <RootNamespace>ssl_server</RootNamespace>
  </PropertyGroup>
  <Import Project="$(VCTargetsPath)\Microsoft.Cpp.Default.props"/>
</Project>
<PropertyGroup Condition=""$(Configuration)|$(Platform)\"==\"Debug|Win32\" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>true</UseDebugLibraries>
  <CharacterSet>Unicode</CharacterSet>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)\"==\"Debug|x64\" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>true</UseDebugLibraries>
  <CharacterSet>Unicode</CharacterSet>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)\"==\"Release|Win32\" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>false</UseDebugLibraries>
  <WholeProgramOptimization>true</WholeProgramOptimization>
  <CharacterSet>Unicode</CharacterSet>
  <PlatformToolset>Windows7.1SDK</PlatformToolset>
</PropertyGroup>

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<ImportGroup Label="ExtensionSettings" />

<ImportProject Condition=""$(Configuration)|$(Platform)\"==\"Debug|Win32\" Label="PropertySheets">
</ImportGroup>

<ImportProject Condition=""$(Configuration)|$(Platform)\"==\"Debug|x64\" Label="PropertySheets">
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<ImportProject Condition=""$(Configuration)|$(Platform)\"==\"Release|Win32\" Label="PropertySheets">
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</ImportGroup>

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  <LinkIncremental>true</LinkIncremental>
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<PropertyGroup Condition=""$(Configuration)|$(Platform)\"==\"Debug|x64\" Label="Configuration">
  <LinkIncremental>true</LinkIncremental>
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</ProjectReference>
</ItemDefinitionGroup>
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</PrecompiledHeader>
</PrecompiledHeader>
<Optimization>MaxSpeed</Optimization>
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</ItemDefinitionGroup>
</ItemDefinitionGroup>
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</PrecompiledHeader>
</PrecompiledHeader>
<Optimization>MaxSpeed</Optimization>
</FunctionLevelLinking>
</ItemDefinitionGroup>
</ItemDefinitionGroup>
<Import Project="%(VCTargetsPath)sMicrosoft.Cpp.targets" />
<ImportGroup Label="ExtensionTargets" />
</ImportGroup>

Open Source Used In HyperFlex HX Data Platform 5.0(1a) 16736
Open Source Used In HyperFlexHX Data Platform 5.0(1a) 16738

97:17:0b:13:0a:76:6b:4a:8b:cc:14:70:3f:ab:3a:f8:
ca:01:e3:35:7f:fa:20:f5:dc:fd:69:b2:6a:00:7d:
17:f7

Exponent: 65537 (0x10001)

X509v3 extensions:
X509v3 Basic Constraints:
CA:FALSE

X509v3 Subject Key Identifier:

X509v3 Authority Key Identifier:

Signature Algorithm: sha1WithRSAEncryption

---BEGIN CERTIFICATE-----

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geEBAJMMQGg952LjQ0w4K8IH8w079mkyQhMeJdYYAqRrbofTUK7DE23g3rNhj
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qE0uclyst3emxBcmP2heJuc8HMZ3i+MWfHcr0zfl+OdADea+tnD7kvUojrfmf0

-----END CERTIFICATE-----
<PropertyGroup Condition="$(Configuration)|$(Platform)=='Release|Win32'" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>false</UseDebugLibraries>
  <WholeProgramOptimization>true</WholeProgramOptimization>
  <CharacterSet>Unicode</CharacterSet>
</PropertyGroup>

<PropertyGroup Condition="$(Configuration)|$(Platform)=='Release|x64'" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>false</UseDebugLibraries>
  <WholeProgramOptimization>true</WholeProgramOptimization>
  <CharacterSet>Unicode</CharacterSet>
  <PlatformToolset>Windows7.1SDK</PlatformToolset>
</PropertyGroup>

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<ImportGroup Label="PropertySheets" Condition="$(Configuration)|$(Platform)=='Debug|Win32'">
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<ImportGroup Condition="$(Configuration)|$(Platform)=='Debug|x64'">
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<ImportGroup Condition="$(Configuration)|$(Platform)=='Release|Win32'">
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  <LinkIncremental>true</LinkIncremental>
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<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)=='Debug|Win32'">
  <ClCompile>
CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #5

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #6

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #7

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #8

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #9

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #10
CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #11
ctr_drbg_validate_pr:"f5303f148d6d6fac90aa88b07ab2b2a9f":"a0de5b1e8ea44b8245da31d78f740b2b7abced4e265b4c9d628eabc6ebcbbe0f118d8cc958b36de959e22c4a03dafa212eeced7c2d5ee6c5961187bee83b1ed3a75c7bd9d0713b16c667e682314fceb7483dffece5d5284e260d43fb8":"81dfdd1c1dadb007e9b14679a55995e8a836197f14d010f3329d164c02d4d6":"7ceeb65705e6455d42a7397f8ca88baf7a961a33a73770544cc563c04b919ca":"9882f0bd16129a78b51d10185725d92"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #12
ctr_drbg_validate_pr:"5a799c58985aa2898cc8fe8e5bca49f8":"d8be8677658a57ef5b64395afa676d2c0e939566e0217ee48ae054fd1d46680023cc1b2af66efa9e1458fc6f60da7e2e2f329e936787db1f5f6366b2cd1d937ad09724e9db4198":"8c179b357379e75719e7457e3e0386b06eb3e2126daed82575cfebf1a25dceda2":"af617f2e228ade3edeaf52a7e5979476dbbc9d2596a17379d3a165348a4888":"49a04f3b4ef052747c7f4e77c91603e8"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #0
ctr_drbg_validate_pr:"f805f51983a8156a529f5593ac3aefebf0":"fb22b182d3962e94197102735adbde446e3d31a72601d0e5a1567413f1b2601701b2a2bb6588a0267d8676755d4ce8e0132d7135a81af75e6ade6e5153680e28ce35ce78d9017b9432006d2620149e5a3ae72b20525483906b6f45369c6aac5":"4cb5b52d66665fd3d39951e1e0a3545ca5a75d21e4b1a48c775829b860e988":"a4b17117c2592516404439432ad0a8ee67bd776a03479b507c46045b3d8962bc":"c4963173f06e3e08c9e5ad22c2e"
Open Source Used In HyperFlex HX Data Platform 5.0(1a)

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,256) #4
ctr_drbg_validate_pr: "0d47e3ee2328185df2c299d270e11f2ee26d7f535a5b4f899fd0c0df79eb50748232f979cef3f5e9bd4a26a4e87e43834b2d:06b5df1f1ab9d5331caee5852be50a26267afe655c98feebb66c45a8a2efed24ca720ab0d8023e436e22a759046d3482045e85556b9e10c5e0fe3febf701ff1f01260868c0b195196803b5f664362b659578949ed551f7b4c566ee02c202f2d4c29f8:3b575d02804f7f0605fcdcfedc03ff7a79acacd2516bdcff7f3061a9a51317:f13b58da64df5bf3e62b518a5c508dd2d2c3e33d132939049421ff29c3c14f0:8469dfaf89453d1481abedef6c62e4a44"
CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,256) #11
ctr_drbg_validate_pr:"e4e09d56af6b940f9ff4e50f92e94f72aced3557b8e0f5418e3022f2720ae52892924176045ad3096e6a6d8db3643f5597:"c5a63c886af7ed749647346ae2f27f056c7e61c9aa85c5d095af11b2e6fa16b33434492b37c7b6977ddbef1273e9511d9305fcbef7f3c6ba6f22d348415305326d2711dd00467224a35985b9f6ee2739acda918743849dfbfa971458e27ed61bc":"f7da3a23e929b17548a05013f9c7085e5af9c979057bbf861ba7514509f13":"bd0612926b3d3e71ed01af910f169f70f23862e6ccf9e76345f607df3f":"75b352aba3d5e350e3ee935297af840f"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,256) #12
ctr_drbg_validate_pr:"ed2a52169791d7c7d332cf258ea4847e35393539fa6839fe767af8f786000ba28e948588ce9b7f52662a93603fa2bca6a6b":"0a1655f4f22f6e98148f81bf353bd34540de98929f3d730dcd878626f81cbe1df1922fe73e4a319be5ff4e50965c27f2f39b15186909b9a7edcd916e11df6f40bfe4eb761a8a04f8d37b5ee5e7508e72d26c7695bf2a8bd79f14e9er2":"14073a1b4b0f7f5b594a43d0ec8781b8089dd2d9ba8266e0321a32a671ad0d58":"4247f6c88665b784349efc14469b42aa371d572079e72248f7b20fa9e4e6":"f2aea2b23e7c07f04ee27fb60c59d24"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #0
ctr_drbg_validate_nopr:"1b54b8ff0642bfb52f1f151c5c0b665f31":"5a194d5e2b3518454def675f7b958efc7db8735e689fc9d03217c68db038209e65e0d856f3a9c44acbd1d00846f5983d771cb1c1374ef9d8ef4099f2e":""":"a054303d8a7e9889d903e0776f2f8"
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,0) #5
ctr_drbg_validate_nopr:"a4e25102e0b4b67d66b6f1ee4a4b3407977765f4a2b3afe351ede04e75c28e3525155f837e797426d9398048c3e3":"0a03b7d026fab3773e9724dab436197954b770eca3060535f2f1852aa136949215304dede1d0e5f8e99bd1d8e923531b5e39373013628f4a4ee7622b9255d179":"be21cab637218ddfa5310c86271db7f"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,0) #6
ctr_drbg_validate_nopr:"6de33a1164252ebe0f0a0124f3d382ca284735f5c53885639788f9ba1407ab5236b49bad87e76d3ce768f1a6a4b55":"d88312d6aace792d087012cc60b3e3c833f63af6b7a94d2453501099b47c45f1e6f7b31386155fe3b96746e2898a00ef51ec3886e420825b0f1a16081d778c":"2c285bf7d58f0156e782b4467f6832c"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,0) #7
ctr_drbg_validate_nopr:"b8ab42fd3f6366426f62ca0e48eb02fa7053940389900c1784e61d7926251762095383f3e23406b3381d94af6d53dd8":"6a7873ec7a7af140e923aceb08256efa782321f0c08a3ddecf074d26d618a7e78fffa3280f97706b6358048ee6a4728c92a6f62b2f2730a753b7ff5ec1":"13504a2b094749f0d2e9ef40df2d0d5"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,0) #8
ctr_drbg_validate_nopr:"e50d38434e9dfe3601e7ae1765df9e777d467991874b5999ec19f42d7054b70f6f6b63a34032d0d9333eda17a5e76":"c9a4a7439011e60f8999db580053ad4269874d1ddad181f872f01669e8752515aad1d1cc301c12f90cd24b0f99ad42bb06965af0a2ad3b3fcb6d81701aa375":"2439364051082e0617e200fcbce7ff45"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,0) #9
ctr_drbg_validate_nopr:"3253cb074d610db602b0a0d2836df1f20e3eee162d809b031660bb886ef3f0789a857af4f5a5897bd73e2295f8789b":"b06960a92d32a9e9658d9800de87a3800f3595e173fe46bef29266264953672e2d7c638cc7b1cada74702672626afa6c4e64ba956e88bb1d810158bee5e5d4":"b6608d6f5e5b4591a718f9149b79f8f1"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,0) #10
ctr_drbg_validate_nopr:"7b389118a3f0d8336b4c5f8ec2d8100e5f99404703fd56a46e10a315fb09aaf7d760e7e9296ffaf61e0cb750cb2a6af7e":"76e92e9f00fc7d0c525e48739a8b3601c51f8f5996117a7e07947aefee36829636e714d68b84c8f8d57e1850a36a5bfdcf21084a1c30fb7797ce6280e057309b7":"2439364051082e0617e200fcbce7ff45"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,0) #11
ctr_drbg_validate_nopr:"350d384349de3601e7ae1765df9e777d467991874b5999ec19f42d7054b70f6f6b63a34032d0d9333eda17a5e76":"c9a4a7439011e60f8999db580053ad4269874d1ddad181f872f01669e8752515aad1d1cc301c12f90cd24b0f99ad42bb06965af0a2ad3b3fcb6d81701aa375":"2439364051082e0617e200fcbce7ff45"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,0) #12
ctr_drbg_validate_nopr:"83e4735366f908cd06f36b886ef3f0789a857af4f5a5897bd73e2295f8789b":"b06960a92d32a9e9658d9800de87a3800f3595e173fe46bef29266264953672e2d7c638cc7b1cada74702672626afa6c4e64ba956e88bb1d810158bee5e5d4":"b6608d6f5e5b4591a718f9149b79f8f1"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,0) #13
ctr_drbg_validate_nopr:"83e4735366f908cd06f36b886ef3f0789a857af4f5a5897bd73e2295f8789b":"b06960a92d32a9e9658d9800de87a3800f3595e173fe46bef29266264953672e2d7c638cc7b1cada74702672626afa6c4e64ba956e88bb1d810158bee5e5d4":"b6608d6f5e5b4591a718f9149b79f8f1"
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #0
ctr_drbg_validate_nopr:"e268ca13daee5c2d8a1023f2cab10b8878d73b87970d0717513a2807682582e3e18e81d7935ec8a7bacd3d51767c7a4911b98f5b1d9c349152fa0b036384";::"f873737c305a0a8ef8ee7976073c229227
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #1
ctr_drbg_validate_nopr:"8d7dda20a9807804bf37b7d4723db00e:"1'd723dbc2ff2e11560e7c240340af6f31c717696d0dfdefcf3e21150cf0cede477d37e2abbe32f3f99a505b74d8e2e09f99f4eaecac887e8712d1397d3d763229;:"":"721762b9193b1f50125abca6c3b2f229d
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #2
ctr_drbg_validate_nopr:"e02e3b6f6f4e7aec517a232f4b8aa8cb:"0820fc21ccccca6b2fe053a269a346a7637dedaf55e46d266f6727a1fd9dec21cd807e27f0a1c640b4f059952a6eda7282ce329595e439734a5e88a408d229;:"":"667d4ddefe938a6662440a17965a334";
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #3
ctr_drbg_validate_nopr:"9ace0326f9b1b6f8a414c84d49b8e28d8f0aaef3f9425253205215e5b0ad7f141ad8ccc4e32332247cf98601ca4f52ba48b82dbd00f1f27897795b5aed1a2ecb202d2921ee2d9cb893e9a00b97d229;:"":"651ad783fe3def80a8456552a4e05b8d
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #4
ctr_drbg_validate_nopr:"1e7a4961d1cd2fd30f51b92a7263c2e5:a9262ed5b54880cc8ceed4119cc9afe3de8875d403f7ca6b8e8c888559470b29fe4f4d883e1275cf938b8a425db169c33c5c2d0b0c5133c8f87bbcb0ba07d9";:"":"124c509ca52693977cf461b0f0a0da9
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #5
ctr_drbg_validate_nopr:"a9e8b0de284f486e32f031356cede60ac:"554cf6f6ad1c376ad6148cd40b53105c16e25f5d5fa5648f65b26faa8c318150fb22294e711735df5eb86ff4b4e778531793bad42403d93a80d05c5421229a53ada";:"":"12e5d3070b1cdf520217866481c5829;
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #6
ctr_drbg_validate_nopr:"1668c7495d43cd2ff5f65ad2ab48eeff:"7cffe2bebf0d423747f263a386b67fba991e59cefd73590cbe3a4dc65aca32f81a8e5edd3a7a758542f51ee9f2de6cd247f64c46ca4f6ce983805a0fe9d3106";:"":"d3869ca9c504b8a6ae8d8f0f461b602b
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #7
ctr_drbg_validate_nopr:"a2d5eff6f739f8e5b04c01967dffe69b:"59759b91b3c4ebe18c0f086269c5e2097b67698f4de6b1e8be8514aa33cad3fb22d1309fc3510e1252856c7139a8e210fddf3c7aae7998865f98e8744";:"":"af199bd9523242e963af2ece8ed25c08"
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #8


CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 0, 0) #9

ctr_drbg_validate_nopr: "60f772e681a82e00dcd09d5b7f7afaf": ";cd7ce90f0141e800f6b66ff3d981d8a0a877d0ddae7c 98f9901763b5946c3bb64c1ef698485007d53251ad278daf5d4ae94a725d617fe9a459a79a9785a9849": ";": ";": ";": ";": ";": ";": ";": ";": ";": ";": ";": ";": ";": ";": ";":

daf75b8288fc66d023a5f5d04a9343"

CTR_DRBG NIST Validation (AES-256 use False, False, 256, 128, 0, 0) #10

ctr_drbg_validate_nopr: "23d30655366e2aa89ee09332b0a5053": "854766e842eb16a53a1551596008354bca1628a95 20d29c3cc4f6a41068b76d8054b757d69f5865266c310b5e9f029afa37c5d94535cb5c9e854ea1cb36eb7": ";": ";": ";": ";": ";": ";": ";": "b09289c3a590eff66221b62384602"

CTR_DRBG NIST Validation (AES-256 use False, False, 256, 128, 0, 0) #11

ctr_drbg_validate_nopr: "3c36881611bdf5d16814360e83d854f": "6abf1ab41cb22d553d0e930a38941f6f271b4894 3eaf669e796e3015bce9b30204b77a416aa066da0a649c8558e5a0eac62f5452f0e66c207cab461c71510": ";": ";": ";": ";": ";": ";": ";": ";": ";": "5be410ce54288e881aecd3e566964fd78"

CTR_DRBG NIST Validation (AES-256 use False, False, 256, 128, 0, 0) #12

ctr_drbg_validate_nopr: "1e45890654235288fa84a1f89507ab519": "0d2e446cad387a962f2f2217c7cf4826dcabb997ab7 f74f64aa18f6c69151993f263925ae71f9dfdf1222bb61802480f2803930efc01a3f37c97101893c140f": ";": ";": ";": ";": ";": ";": ";": "fc2d3df69c1ae68fb01d882fdcb82104"

CTR_DRBG NIST Validation (AES-256 use False, False, 256, 128, 0, 0) #13

ctr_drbg_validate_nopr: "974c5ae93047d8394750f994f29f01d": "aa04d9f56349fd1d31868e9efc29389f0140c0291e5 5ac0a00c24ec4609731b8e0ace04b42180be1af6d1b26faff8a6de60a8a4828cedf875854b6037afaee": ";": ";": ";": ";": ";": ";": "c3ca482015003643d5a319a2a4f8fb4"

CTR_DRBG NIST Validation (AES-256 use False, False, 256, 128, 0, 256) #0

ctr_drbg_validate_nopr: "b3a110587a16c1eafe51128a66161c": "203ba645f5ccce3383cf402e04c713b7a66b6cc8 b154e827520daac4ea3a0247bbd3b2ced853e170587d22c70fb96c320ea71cb80e04826316c7317c797b8a": ";": ";": ";": ";": "9af4f6f7a30a4346e0cfc51c45fd2589"

CTR_DRBG NIST Validation (AES-256 use False, False, 256, 128, 0, 256) #1

ctr_drbg_validate_nopr: "55546068cd524ce51496c5fc96226b4c": "951e712d057028158831ca8c74d4ae303ce6e4641c 3444c1e8029226b0bd9d8e2f5b97606370e95903e3124659de3e3f6e021cd9ccc86aa4af619c0e94b29aa3ec": ";": ";": "2d6de8661c7a30a0ca6a20c13c4c04421ba200bef4f6ebf499c17ae1561fafa": ";": "41797b2eeacc8ba002538d3480ceb076060ee5 b9a9d7e4a2bb2b201154f61c975": "b744980bb0377e176b07f48e7994fffd7b0d8a539e1f02a5535d2f405f105f43f": "65b97382ed578af03efa00a8db0d5f6f"
CTR_DRBG NIST Validation (AES-256 use_df=False,256,0,128,0,256) #9

CTR_DRBG NIST Validation (AES-256 use_df=False,256,128,0,256) #10

CTR_DRBG NIST Validation (AES-256 use_df=False,256,128,0,256) #11

CTR_DRBG NIST Validation (AES-256 use_df=False,256,128,0,256) #12

CTR_DRBG NIST Validation (AES-256 use_df=False,256,128,0,256) #13

CTR_DRBG NIST Validation (AES-256 use_df=False,256,0,128,0,256) #14
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 0) #1
ctr_drbg_validate_nopr: "$6f029b85eb9f9642764f9476791172ca66d8f86e0db08d40824de6f6b91d9b9af2cea53f42
53c45ec369a2327127":"6673d3edf41a154ea33b55182b8bee4d7d4ef8e890c7036cf7c2665d44c289f3a8c8ff166da
bfa262933d337e729e0b6a0a51d00ba18f877bdce90ce659e":""":"":"16a200f68a8b2947e061cddaa5597"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 0) #2
ctr_drbg_validate_nopr: "$26e635a6a2b6402b968c1ee13c6a980a0ee9b84979b14fcddc5b8f439098861f74de2c2005
05185bf5907d3ade9d2":"80e56f893be9f22b2b03caaa8f161d5b31b37f36362ccbe7e4040d3073aa2a2f2c6f6efc
041df8e57e107949c42732364b63638b51329ca99671d53c7c":""":"":"807586e977febc2f2ad28fcd45e1a1de"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 0) #3
ctr_drbg_validate_nopr: "$b239c485d19c9e964699b3d5b7ab9cc72ac9134a2e561b3dce8b6f9e7e08f2d0a45cf6
7667a4e2e6343b2d737f":"c963e17ef46b7b2c687560197904e4734e0939c436300b3f299dd89f8539a11b1b0598e
93e84d50b6e81e794421ab546b202e4b22a4a94538dda85da82":""":"":"2a3218b4d59f99b9d83256316aeeb090e"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 0) #4
ctr_drbg_validate_nopr: "$0239545a23735b803ae7cb776676194917d6c6e107e4e6f5e6ccde5ec5d1b529772d2b474e6658
9d4a4d934f585856bdc1d":"":1a440b70a2b6ecb8d5627d987fa2a0628d7990dd7d1460fd1e5040ee6e9bab0e4902
31f4f5bc71188fd94e4170389a8b6e4a7e871e95e9a7d7a87b0d7b":""":"":"9dafaab872c748299d10a8316e7419d"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 0) #5
ctr_drbg_validate_nopr: "$28b6639b415c79012c749de2a0d18433ce36ada5518510f84124143f5a11b9d572b7c29208e0
1d8808cfe1ea851c144a2e46731f30fdaad5399984db2d2b8f4d0c0bcbf11b6b6b25d3108
f4b169f0cebf261a4c635525fafa8ccedefb911fe0847959096f4":""":"":"593c39c56bb9e476550299ee8d85df2e"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 0) #6
ctr_drbg_validate_nopr: "$28b6639b415c79012c749de2a0d18433ce36ada5518510f84124143f5a11b9d572b7c29208e0
1d8808cfe1ea851c144a2e46731f30fdaad5399984db2d2b8f4d0c0bcbf11b6b6b25d3108
f4b169f0cebf261a4c635525fafa8ccedefb911fe0847959096f4":""":"":"593c39c56bb9e476550299ee8d85df2e"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 0) #7
ctr_drbg_validate_nopr: "$ee735a8549fc3f9dfc6b96fd048936a771439ac7271d715a278718a9e2f3c3801030bc74b
048ac1e40852345e87c7":"":51080dcd6e849e901c7195c2f00d7a04b675e0bab523d2c4d7dfcd892448d58e3f1aa8
e1f0e360f493905f65369aed2a5b337df8ac8e4c1e8903a6ad5":"":"ba871b0a5834083b553a57c8defa39d7"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 0) #8
ctr_drbg_validate_nopr: "$841e92fa42e06769c5c52fe152d07837b8f0048392ca55d0d405045f33d6325439eb585e
96771dd4d005f2baf2":"":97511ae52590a6b47573e10b89671880d26ee8f90780aa273263d0ce320d824be5e80a8
8cf87f3d4c607eb877c0322d09b9ca3498c4015c53c66fe890093":""":"":"a8fbd31362bd997ad4f9116e23dbaf10"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 0) #9
ctr_drbg_validate_nopr: "$55cd7e6ff5a0f04b97b8b8ee14170f7952715db8f01420b0d6166e06c274798190a796b32516
3989d86323c0d3be0d68":"":baf0ca0a64669eca36514bde6169034011f29e2a0a4b9a550aae7df0c5aca2371b523e26dc
44b5f75493bdaa023d155529471828870b1afe72150d9f7265b4e6":""":"":"fa16d6a0fa01b3c202426adabf61fa6aA"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 0) #10
ctr_drbg_validate_nopr: "$ff3f098fa3d2b3b38ed982e7afb61d46b4848c8789b280f8e5ed6bd81176e76f0a2a85071a4"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 0) #11
ctr_drbg_validate_nopr: "7242e1020a63770cccf6f8100970990232da911d161c9b03d38fe5e7a568a86252a66481212e5
d53c686561298dd5bdeec": "7c386ba332c3f525uc279a2d70290d77006160afa709b024220b903587d1d7f7f02d3abe
d8b563d32c502b88f838b599f63dfbtf05f7853893ed945636b9d": "2232181f08c1569e0af1d82cb85f3ba"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 0) #12
ctr_drbg_validate_nopr: "a2e445290fed8187df6d2a57e68385b5b2d700cb8f1401040766b53e6606a0f92399bbf7e091
525c9501f064e383a2e": "fda5f1eaa2531086f4b255d215a3ec1d101ac898e4423bf75a74619e9f5f3eaa35b5e0bec4
d8b0a9567df81899e3677742129af335e90ce6dd79c7d2c": "3841e2d795b1cb9a2081d60161a171d"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 256) #0
ctr_drbg_validate_nopr: "19b83c6de0a4636a3912d121fc8d8041a5b30640532a9652770cfa99db53e9c09942dd67
b91f4da50a86154ddce": "5d85c56d0d20ec39958a9f0301d2f8bb136fa3d490b410a9e9375114a90d1efc1dcdba2642e6
39b89e1a2440949b860f0e5a977da608e6652a41711de19b76255": "9e1db928995c846b67406a62df676a5d43e9e
967e9821f0390c58f821": "a3111cbb73656c16f0db06b3a1a9d4a9789b75903esb21e4247d3ddd0d2s85
b7005c9d58992b0026e5e2655845f7cc25d3d086cece95f0b6ff67a17d7df47470abfe": "b037c7f085f4d7eaeeeb17f4c643a74
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 256) #1
ctr_drbg_validate_nopr: "e1825c0fdec2d9a39adb3e7a33c1f37a6c49166887887344ae2683ddca23f319002f5c434364
c929a6d913f7539a42a": "56940af6c8423e42e8f6ed36e3cfe4f06a2b305c236a511b05b3ec7005edc9899fb2006e5
2ed55845f7cc25d3d086cece95f0b6ff67a17d7df47470abfe": "b037c7f085f4d7eaeeeb17f4c643a74
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 256) #2
ctr_drbg_validate_nopr: "239f21be6cda23e86606a8e5a0e479f6ada63c6e05f2df92286899ae43fbbce5ac3e51645500cb
3eae86ff6860d44272": "2975a099f7e6530e5576534c251711f931d6bbf992597f12b7fb77de998b1e829025b254a96
31a73a311302196b2a9047353476e828037a062ab0e7303ed0d5": "d451a5458a4ed1d6342173797e760esb21e4247d3ddd0d2s85
b7005c9d58992b0026e5e2655845f7cc25d3d086cece95f0b6ff67a17d7df47470abfe": "b037c7f085f4d7eaeeeb17f4c643a74
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 256) #3
ctr_drbg_validate_nopr: "3e262abe1db3ead373872ca4d9f1d62080cd23f33396f43a0af992bed2400ce6661dfaae83c3
c4d833347ace8a407f7d14": "379c4d11ede93b819943d6ede2421656d12fe39e0bca4de6dcfcbefc5d1b7866f680ca94
d1a8f28f85f3b35c9495297b0a3e170685153c9e29fbd0f4a228": "f1f4af05ddb312b8ddec973069edec2d2801a0fe0d9
bde2cadd35e5b2d401509": "138bb2bad4eb43b217a4f0b156a1d1f570c6fe5f6ebed5ed19c30a9f3942f": "f27cf4722
808c5458fcfd61cesee9f253427a10ac43ab3b2e53562b2272e3ad": "506df6ae8fff9222e65ac86df61a832"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 256, 256) #4
csr_drbg_validate_nopr: "cb0229d2b27d910b0b169e89f3318905ae8dd93ed91a2f8388545db23df2489e7988bb0d
6e4c49a9f7fe5abe8630": "514ec8cf243292908534347e53ed0bd159eac5ac13b8fs20fc5d6c0e6fe99bb51a1b7a161
9e94eb661ac825a4e8a5e8b8b9120dd6efc531e9ebb7cc52236f37": "a6ed69c9216e551793071f1bdaaa04944fd676fe44
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #11
ctr_drbg_validate_nopr:"4d283eb5ec0d8a1613c975e248327706436139a5ae0d8649be0d68c89ef1e6a6c3a122eeef
d9e22126d02c383d6c46c":"aa4917a5cf19730f950d97a6c2989616e6c5b65baced866a6c6f5b32298a63e66891a2f
b0778fc3f1da7b06044d7b0fda2e04fc3b371324aca1ee1f936b6":"05a792a684ba7afbd333533995e8a5140a3855d4c
5f44a31d665a07d2107c139f":"557ef1bedce890d1543d36e6cefeb256427826837d7a4e6c8aa0836b07157997c37c":"e87e45073f8e36c38b128cd2275a1604313787b5e816f2c6fd7a37909eb72ea5":"31eefb1b1cf3253a5f717b185a666ccf
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #12
ctr_drbg_validate_nopr:"a6f488104a6c03e3545d51805c62dc3016322db218747fa83f1999e20f6acb1fcb2889536bd
a1187f59b7294fd55ff2":"22f8ad57a2da0a100a2e86ad2626832659217b84dfe61639efdb0f6dbb35e6341ca7721095
d69686212dfe87841c00d0b9404756d527d76165d5a0515169":"fb9951d563f6534a688545784ba13043c9f779744d
86e7a28aed1ed75f9224a5":"b1ea7c6b53e7e9497e63086dee32ddec17bc4f27fa6142f2815ec081cdd5c9":"0d12cc0a399bf87194e407f06b54caaaabbe48fa192b96c6fed2a7949d59fa299d62a1c56786e8fe738d375e2ca4875f1
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #13
ctr_drbg_validate_nopr:"9d67e017e0db7c709e0b3541f3d3ab696b646146802f606def9dcedef5b5b19f75f899e5f6a
269cc0432c876468e18c":"d8be0e1c119f095932cf299143e737f2b012db086c2d9b19a1e2a2cb5b65871762b02ee
7bf68f1d208523f2d7a7e368517f6f751739b228d23df20f7f3574a5e24477e8759bedf7aa196f397877103892e8fe8c
465e0c9ecdc3dbf04570cb46cf1db04bc30d66fa1625d4b302691b97d59eae17fb508e91a46c3538e042f0eb796b4af9b4e65cd850425f72ec896fcea741c17172fa27d9559a5e0b75cc520a423431767a25e
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #14
ctr_drbg_validate_nopr:"109146086af0d373a26c53ab83014283b678d73dfeaf6b4a3540a1f72fafa3b3cb69f99252b423e
db9f946b906f431017959":"9edd87d289412f0da8935eb048ec668ebad1baee15c5363e434158d9541f99bc468b1c0d39
0ba080f858f1d04c173cb2b77723e67692efa7ade488b269262225159b4e670994f7275716233b5e187d70a7ea33
f5d6822906d4f1e412586ed4496d410cd46a6aba0655f5615ca0d9f88adbe5c6bae6a3a0a159cd6e36b0f75efce14f3
25b8b458ddf3c7f2e10938f4c2d04c8d98852b5b9277bdc229c70354":"1ed50bedbe87c792355eb416c565d32"559a5e0b75c520a423431767a25e
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #0
ctr_drbg_validate_nopr:"0236fa6a73d4749b36b54867994432":"2462ad760ddac0e4013688bf613881f190c7b2de57
cbceee81d6ab76b0f67b75ac3d585887f8d2a5a9dbd9cfbfa425d610fa9c27e4b7b71145f302918e908ae5"."".".""."":"e0620c68515a461857dbde64c14473d
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #1
ctr_drbg_validate_nopr:"7e0fcd9531c168bb899d3fa7e918fb59d5":"56b2e11d5c2d87d2ec90c285e0041beb4594af6d57758009562ce50f4c470b76208337e1e18453082d725269667d86226ab29944bb5fbc4038b7986e489ad"."".""."":"7194ee0d333fa5282dc44db964ef5b
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #2
ctr_drbg_validate_nopr:"0130217da4a9345402ed9de7b8040fe4b":"28e5929df9db72b40a4e888078aeedde260f6e6d40472a76012586e94d7b6a5761f804eadbfb332932726f1d66650f78cc2be484c0ba803eb9a250202e865"."".""."":"4652f054385fdbe02d05ace21668608"53d4e4d7191166d50ff01d992949d2da7a385ffe5795b197ced78249fed34a097768ee4a9267c2e613a6514e5c5b73b541d7db314b508061"."1158eb9cb914b50480ffef0788180780b56129a742710ed063f8bb2049e1b3e69afaf7223f5b1b55f35a544f78181579b1745990053357916fe507e1516db660cc3923ba3ff0715f5672182334ed1b
ctr_drbg_validate_nopr:"07854447e33521d2d997d90e0887f42d":"c561ab6a6acfbfb98879982ac7add92b80471e0154b77c5cf9d8e7c2013e411e8075948e97ab4db7505797a99d456e54e6585042e6eff7e3970e399ea0d27537e":"":"":"":"1a14a810c11b40fa23c6467c47bbde0"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #4
ctr_drbg_validate_nopr:"68a8e01581d660663913e5977465026":"747c7e9aace6d4840c7b5261e0af796c516477421d52850a7072a0ab2c768fc8c80c9ba8d18b22877a7f6131c788a76515fe31ae4ed67376568231a4700fae":"":"":"":"a5723c43743442fae36377b553891aeb"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #5
ctr_drbg_validate_nopr:"14590383c60b70b9eaa77f0a6ac6ab707a2a":"97d83931081466d45287a1855393e0eb0f106acc7b4e8de803521a670b23483d57826b1484d329a2d1e2ecfae8eef7ba6e1a050e3f1e47b96ad48a711ad1aa":"":"":"":"5fd6bf108e8688516f185c556f5e5c0"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #6
ctr_drbg_validate_nopr:"a3357db173df98da4dd02ee24ce5c303":"f1ce08587ac0338b4d0b8e075b42b6501e77758b30087d0e28a8622f7bab7f76e3b4f8027a1a472d6b9c1a66ce7926365918db87f1af0e7e9c39e2e8684af3f":"":"":"":"8a5fa1d8e78fb1ca4e4ca3e1ae82bb8"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #7
ctr_drbg_validate_nopr:"212f4c80c7e9287ed25e3b965f919a3c":"bf1d715b3f56e433827e9cb429b5e5ca61c80a8d9b2fd4498e1c86ce7036378f7f43056ab0039e0b8a63320dd0f6c1de603542f8e06356d9be3c61cdd4cf":"":"":"":"04ac2f969e828f375b03ee1e6317e8572"
CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 0, 256) #6

CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 0, 256) #7

CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 0, 256) #8

CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 0, 256) #9

CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 0, 256) #10

CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 0, 256) #11

CTR_DRBG NIST Validation (AES-256 use df, False, 256, 128, 0, 256) #12
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #13
ctr_drbg_validate_nopr:"7b95343a4a4ac0f8ce8b26445c337577531a416:137e2987860cbcb1a142594e1a394ee754c9a7a6 5cecc900bc7b5e86e672e12c8c44d4831e14bc46b4759a11b3d29f4e219077a8696efadee618f254cb80a:1629753a 79c9ae4793177822829e6a06ee6a0e885a6f56f56ece3ee6eb:0249e989ef16fb35fe247c3035198705450449ce46789fd471cb7ca6887":2b14d612eb00c7fa0da8e236bf91d90af6827e9c0e050d5497df0fd34666ce78:7f27e1 7405163090fe0b7d95b65811c6

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #0
ctr_drbg_validate_nopr:"037290da2e9a19c8404ed833e425f5a5a7a7a4e5a812065965478d64df78502cf3c670b0 899843ec1914dd44c811:80bdf18288cb8adb663daace09c553af2e7317c914d37f43e3e2573e2a0bad175289bda91fd 41e5a08acdf76007acabc19c958aece301f73020ce97aad0e":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":"
5d21c453151cb0f9644fe8068685b9fca813176e6780796e8ded"":""":""":"98d1dce30593de8a8d5b4d956f6c684b"

CTR_DRBG NIST Validation (AES-256 use df, False, 128, 256, 128) #6
ctr_drbg_validate_nopr":"a5c3e183c06b8069ef9fdd77204b085ca985f2f22170b8eefcbb4f4e11c45c24cf256b3315059f97ce48244d5beb685c"":"1d0d1dab87d59e6928f11e81803d86f51ee0df3ff6308a92dce475033ec4d20aa18d9f821c6a7d64385724f0e941231426e028efed75e53ff8edef95ef1baf265f":"":""":"035ccc3a24b7c44e5c19436c2689a75"

CTR_DRBG NIST Validation (AES-256 use df, False, 128, 256, 128) #7
ctr_drbg_validate_nopr":"68bfadbdbb821cb978527ff18ce37c96e79ad751756551f366991981285a68854ec7172f548c3395ad3ee40401004d,f4b":"3da9e9518eb1f1b6b2e84e59f1158844ff6722d8b14f7ec23fa6ed6c86b890a732a73b018a3387ec3dbed34eb479413d017932ebf9f2a26e0b352dbf4e06718f99":"":"":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":"
ctr_drbg_validate_nopr: "8e1a59210f8d70d107190e9b69d73579d712667320ba8db99d79b373bcc859574460e8eadd07a00c8b7dade99", "2b67c04ad04db444667b7c582a8071654d27859441b1079908b88738889b26ca4306e7cbe059f104c607f80c379be4942e553b567252551f0ec694d6593", "19e9e44bfc6d872ebe01d661b7874010e8c8b03a63d0d7f77da5ace6c962a542", "bd7a0c9e78e00ad7a875d0f855b8d77b4454c3d066b8deed053bfaa5ecf9021", "d284dc2af6d214f8909efca75297bbcecf034535c2788a9f68b752749c7ec0e", "129d256e7db6269e5a0a160d2278f305"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #1
ctr_drbg_validate_nopr: "00674e633670c9971be7ff893d75a4ef567b3ca4766722cd8f67e90d21cb7bfa08d43ea1a2a59096e630a7ee634762", "ec7b0296d438e5ea1938888e9e6adab27205b060ae10ee712620270dbdfdf57399f6a19cb6658612fab78439a0db5a01255569a6013fa130dd06df0542", "5b92bce3f8764f5126daa07404fd7df98b9900a17743a57399b98ad1a00bf12f2c", "8199f458898a2888234c7726ef35243f695b277726c76db5b4f26399e14d83b5", "e9b951a4d8400ec2d4e0f548b6e9263b65e8248f6b167661a5f3bb9edc5df0a", "9f9be9581578e272a9ad92a5f09c2a06"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #2
ctr_drbg_validate_nopr: "2553423c3cb08a6ea84a1be797a96935dfaf47388898777f789a9bee867dbd0160c4ec5ec68da2b922cd884e6a81e", "a9eb9d137111c0c22c49b32352654854515a9de015e6e88f8babecf967b63d77abae19b0202cd427ac789ca17166e499b3e3ab207f59f2476e3555157e9ebc7", "e74e45fa28697a06daba08545fde02ce67eca31e40aa6e8e4e1cde402fcd9e6", "5aa8abf706207999da13ed834a8f5b61504c760e25ac676fd87629768", "84819109b2e09b46ba3f5464c34b28ce25a1868e0f0d83e5f0a6b26c01292a", "3846f3406e9040c48b5cfec9bc75d1a"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #3
ctr_drbg_validate_nopr: "856f1371454bb9a066be897dec9b295817c6eeb865a9cb38a91d45bf2ce9e5b13b2b174571a1ffaca7f591c4d733", "a691b8b6a407c93a36d18acced4e7f576d83974dcbe4d88820cbe9318697f051e1f6e68827076a69d5543cc1a467d47be5534504c7799383ec05e", "2c81d1e94b3316a2177d08382ed7d23e4f8424a42644e58bd00de38d82e", "1b5daee81c96771eea091521c09735a76af3e362416e251157f43ad132a9", "bf5878e2bd139f8058f3d834ac7d71514a6d4e5b9ef84466e5a4e0eb2eaaaf", "6a5ea73a4d76ce201e173d4a57ffe"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #4
ctr_drbg_validate_nopr: "0436075cf8662ce623c2301ebd45203e9828611cfa5a12d7c0452f7a7eb343a607a2ff57f9eb73c3af7e0abc2285", "1ab9a6eeeb3fc8e53f538b6e43476cfd4dd0912f212db1c4bbff0f0d1a5c0b720aa90ff76a9acbabaa6e262b65b2650ab448b8beb869a7a446fe48d", "62f07d1f49e0f7f4729958947ac4d8ed2f85d219819429b70f43daff8972", "37ae758141bfcb8900e71e0d8544262b984fb1c094676f66a1546e9315bab0898", "353idd0e008d8656bc418a63ace138edc62819d4e21b8bd87694e683e0cc37", "bfe66b4af228da981bfe7f0d17578b"
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #14
ctr_drbg_validate_nopr:"50de72903b9d99764123ffaa0c721e141ad1ab5c46aa34c040f25324ba1d937b8ef0467161cf2978e2a680ac55706d2":"e35954fdd013e623eb2f6d5734052e3e9370f7b9d75c70f58fe33b12e3997e2e8db848f467afdf7cfd9a9e7e60d6af631b9f9bf3a2e6df44e49bd1f1c916bc8d":"5d5ce4c9f7171f6bf9d26e65f5ef55d245a58b22ad1666ee0513e331d49e":"ea3114e29e1a9f53b07a0a54dc363a6d053ef0a872f95c6f0a8580f7a342":"53686f069b455af4692888d11fa5c7b4bd38e198de4e62b7098f75198a75":"9f0bf0f53e03d5e564a0a97edef50a6" GCM NIST Validation (AES-192,128,0,0,128) #0
gcm_decrypt_and_verify:"806766a4d2b6507c4e113bce0e46eebe120eacd948c24dc7f":"4f801e772395c4519ec830980c85a4":"128:8fa16452b132bebc66aa521e92cb3b0ea":"FAIL":0 GCM NIST Validation (AES-192,128,0,0,128) #1
gcm_decrypt_and_verify:"0e2abcd2c4ae4137509761a38e6ca436b99e21b141f285":"335ca01af07081fe4ae605eb5f23a778e":"128:d7f4757dfcb92a75bc8521c12bb2e8b8b":"FAIL":0 GCM NIST Validation (AES-192,128,0,0,120) #0
gcm_decrypt_and_verify:"eef490a0f2ee2cb32472e1654184340cc7433c34da981e062d":"d9172c3344d37ff93d2dcb2170e5d01":"128:017ef05260a496654896d4703db3888":"FAIL":0 GCM NIST Validation (AES-192,128,0,0,120) #1
gcm_decrypt_and_verify:"fe0c3490ff0dba23cf5e6e6e1740d06f85e0afec6772f3":"f47e915163fa3df7f6c15b9d6f53907":"14e1a057a2e7ffbd2208e9c25dbb1a":"FAIL":0 GCM NIST Validation (AES-192,128,0,0,120) #2
gcm_decrypt_and_verify:"43566b3bf1d08df35f73509945afe52689849fd953f01096de":"a35b397b34a14a8e24d05a37be4d1822":"e044c9c9eb20d2d8c0826b77a21b013":"FAIL":0 GCM NIST Validation (AES-192,128,0,0,112) #0
gcm_decrypt_and_verify:"e2898937ec575c6bb7444413884deeaf8e326be8849e42":"169a449ccbe3eb29805b15304d603b132":"3a80725f1d6242849a69972b14f6d":"FAIL":0 GCM NIST Validation (AES-192,128,0,0,112) #1
gcm_decrypt_and_verify:"75683c7df044427053686fcd6b481f0b8f8d953a90487e":"538641f7d1c5e68715971cee07da73":"07d68fffef417adc3397706d73b95":"FAIL":0 GCM NIST Validation (AES-192,128,0,0,112) #2
gcm_decrypt_and_verify:"0724ee1f317997ec77bb659446fc5a557490f40597341c7":"0d8eb78032d83c676820b2ef5c22cc8":"7da181563b26c7aefeb29e71cc69":"FAIL":0 GCM NIST Validation (AES-192,128,0,0,112) #3
gcm_decrypt_and_verify:"be2f0f4ae4ab851b258cc5602628df261b6a69e309ff9043":"646af91d83ae72b9b9e9fcee64135cbf73":"169e717e2bae4e3eb61d0a1a29b":"FAIL":0 GCM NIST Validation (AES-192,128,0,0,104) #0
gcm_decrypt_and_verify:"583c328daecd18c2ac5c83a0c263de194a4c73aa4700fe76":"55e10d5e9b438b02505d30f211b16fe":"95c04aee9e80f91a4acce500f7":"FAIL":0 GCM NIST Validation (AES-192,128,0,0,104) #1
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628ffe61c7b4faeb7d6f413d46fe5ec6401f30282427ae3e62db3ff39ed0f5333a664d3505ff42ca8899b69a29ec01934d4b59556fe9b05558dfb81f555e013545bfc3e4199fbdb3ce42523e7d24be2a04cd6b7":96;"e8e80bf6e5e4a55e7964f455":"FAIL":0

GCM NIST Validation (AES-192,0,1024,64) #0
gcm_decrypt_and_verify:"ce0787f656e6c24a1e444e35cd383195197530aa20f1f6f3b":"";"55300431b1eaac0375681d7821e1eb7a":"84a6993a4e1e597061f9e5e8ec3c21b592e9236dbd98c686d7e0f51e709937b48ec34a4b88dd99078d133a2c333f5e68195d7eb82888e49faa5d54147d36c0e4d50486030a56fde88d55537119db1d75d0402f56e2197e7be7bb9f996d61c664a75174e880a00f5a56e351d716b9c550921961505aafab4f6d6cf04dc5961":64;"74264163131d16ac":"FAIL":0

GCM NIST Validation (AES-192,0,1024,64) #1
gcm_decrypt_and_verify:"3a15541b5857a668dc989b2e19d2416e8ba32c3e46":"";"89fb8ab0cea6af596f16eeb9b314d7c333":"4d2843f4f9ea13a1a1ac521479457050178bcff82be2aeeab09097eaa471da9f6c660a532bcdac1c18c8a22a2f541d3b87de66999e994ace3951f58a92dedd6209e9a04549326daa499a3e903e4i7b9096b17de0b5f454bb0e7c98aef56a1ccacf891614d1616db30fc8223dcbed8e7fe7f55d8253e0fe34df66f7191e0303c52f":64;"8f48787806daff10e":"FAIL":0

GCM NIST Validation (AES-192,0,1024,64) #2
gcm_decrypt_and_verify:"b61cd4d19c136eeb2a2e09b9793a4683a713427518f8e559":"";"4066118061c904ed1e866d4f31d11234":"153c075fecd84df80a2c5ea872f20011d16e5f84f3638b148eca332cd5091a0ec943263d051c1d2ced019191420c56dea1289fa470db9ec4f2ec5f974e455e63e215a2c8e27c05b5b45b662bf785835a29866e876ab41ee628c124ab4d5f7954665c3e4a3a466739f20393f57000ec79d2e3c2722c3f3b3c77305337":64;"eff7227b242f9a7d":"";0

GCM NIST Validation (AES-192,0,1024,32) #0
gcm_decrypt_and_verify:"ce1757d7f74e29f2c323540e6b8524323e91f40f592ba144":"";"c34484b857b93e309df8e1a0elee9a9":"ce8ed757f047b5a346ece4de9f9bcb4ac6d56ed10c3f6e12e0ad7c3a399eb7623313e3c1101a18983433a2ff4c880a0639d2581b71e389dd89255a11b0f4e6ee695bacd8978eec34649e12c66e6cecb33e3ec67927c5c124bc2962713ad44cd435ae3c1143796d3037fa1d659ec5dad7eb3e8c8db5b691193d7ce8e483":64;"ff355f10":"";0

GCM NIST Validation (AES-192,0,1024,32) #1
gcm_decrypt_and_verify:"5f6599ed2369a6049a9eb1e1ee2eb40edcf3f25a2bace2e5bc":"";"ad49f12f202320255406c2f40c55b034":"6da6289f29436fe97900e72624f858ca56d1955c9c3e3336cf82f0b3f0b1e7f799c3019109a98f9ef5f4d48a481198903e82cd95f8681995d977c847b7b06dcdce98ba1ee00b23c92f0decf3457a1flb36f14e90e396e6ce0594b0c0dc65f3ebf866e7edc4b06d1c43202734d53f5751a6e6bdaba98210410af240de4f4b":"";0

GCM NIST Validation (AES-192,0,1024,32) #2
gcm_decrypt_and_verify:"a73f3188b1e298ba4a0b2aed747f73543b1017ccbd1b20":"";"abc33b7e8d888d30deb961e90c4e951":"6de616b00047b1a2b67f95015183d753c6149996c5e9c336cf829f0b3f0b1e7f799c3019109a98f9ef5f4d48a481198903e82cd95f8681995d977c847b7b06dcdce98ba1ee00b23c92f0decf3457a1flb36f14e90e396e6ce0594b0c0dc65f3ebf866e7edc4b06d1c43202734d53f5751a6e6bdaba98210410af240de4f4b":"";0

GCM NIST Validation (AES-192,128,0,1024,64)
gcm_decrypt_and_verify:"73d5be74615bc5b627edf9745343b1017ccbd1b20":"";"fc04993eb85596c1273150c301033c1b70f0ce077a6766d9ecf2e2e48d793faa4df303539ec6e90b2e89ed322892db1bc6339748273fa1edf6d6efc58f1e1e9301b250297092d9ac4f4843125ea729953d707ff9c4e258ac2a58ce9df14c162604ba0801728994dc82cb625981130c3ca8dcb3391658d4e034691e62e0ace6407":"eb16ed8e81ede921951a9055f7aba9":"";128;"804056ca9f102e4a13
GCM NIST Validation (AES-128,1024,0,112) #1

gcm_decrypt_and_verify="5e80f87fa215626d7fe2a16d4890de5ee5868a648fc9":c829073ef5c5150d2b7e2da
ef9799803d91a98c347772da4ed6742c64a85e5033046e03599e62f26c495bcb34a161df45f95815c35b8683dfid7
856abb6618ef8d35a92951149a02c9df2174d44a1885a067c610bb9a248b82f31646308c57587922427bf9c79d9
9aa357636d2d6b4f14a37ab775531fe8abf":979f71fc7665b6c60462a85d2c12adda":"112:\"394b66c3a169be3ed
8c907f03d4\";"886bd92a9cd73a52e626b6c63a3da138aa0aef7809086d045fe0c893962a22e25d85695363b9c5103
66846d19785bb425c6c1026ada992247177177149a13sf227dcd98255241e11ee3606
2a937a6ac282fb4b752b306cd8235ed81c2\";"4b12c6701530498ce231b14659f6b4d6f":112:\"79b3c16c5d6b8999c9
3d7f41caac8e3\";\"FAIL":0

GCM NIST Validation (AES-128,1024,0,104) #0

gcm_decrypt_and_verify="c874b427b7181b0c90b887147c36f242827149324fd5e945":bdd90190d587a64af022f0
6c8bd1a68735b6f18f0411136ccee2c46027aafa271b13365b7f13d247a173d9e05d5ae6a9b0ad0b06971230287540f
614320151fd43b90a3d6f35cc85663b1a6f98afec797cb5259567e2e9b7ce62d7b3370b5e857227fa740ed81b53a460
cdd7de90ca6abc6cd173844216c064b16ea3696\";"4b8dada64a5b7c64abecce23a2818b9a5187765f3d37531f9d4e3t5c37fba
1623e8656a1affaef29f3da3113995e87d51a5a4872b85b5b8e8ef2b14d3cf3df5a48cbe9b10853a708ee4886a7390e8e
d4286740aad41c0258d72eda3f73f3cece5c335d5e5b043a4d769131ccccc2e41b97da0\";\"FAIL":0

GCM NIST Validation (AES-128,1024,0,96) #0

gcm_decrypt_and_verify="56534cd6e2eb1e3dc136a826bfe37cde127a2643041a14":"d541d3acce2da0426ea26af0b90ff93a38611919264236b0de9c51103b45ab836201759d0b85f5ea3971060d8299eedc22791cbe06103cd44036ed0d
6d99f53724bf0b0368b3c3d97a129c28d97f09e63000ebe06ba66f410a61c3311ce3345f077c37acb37b12948714
87f9c958bc33bebe2df34f4d36d4eb8790fa":"9278e2a396ed2c859dcb8688a8296":104:3a98f71112a8a646060e8d0d":a602f6e1835a3ebe4e83b1193b6db4b7c51e9df1be0b19b60a6e98e4b90794283180f33ed05c37fca
1623e8656a1affaef29f3da3113995e87d51a5a4872b85b5b8e8ef2b14d3cf3df5a48cbe9b10853a708ee4886a7390e8e
d4286740aad41c0258d72eda3f73f3cece5c335d5e5b043a4d769131ccccc2e41b97da0\";\"FAIL":0

GCM NIST Validation (AES-128,1024,0,96) #2

gcm_decrypt_and_verify="caaf81c380fa778580e0d169a1a688e9372c5850dcb0b":"6f269929b9c6281e0067e2ae
128f18772decc1c19504519212455b95a1544d50f0454660c4d53ae07d17a7f7db2da179076b5fcd6ddd08ce1c
075a3b4d785faa034b4dd1243f379e065470b466704d9173cb43292ae0279a9035c3e3b29b9f28423461f7c9a2b
d311138725b4513d73ec54d6e0a2379f5a":"508c55f172b26896f59bf0a7024ef2ad6":104:3b8026268ca5f99ee
767c7ed7":"c4a96b808d7c2eebe1d7046172b98569e24c44195fe06d686af13b98060ce7ade74d6c8c9682a2cf15f
8e1b375e154677723ca21fa81ee176f8b8573381ce03bf2d873897131adc62a0cbebf718ce8e8b8eeedc3104553f17a9c
706d17895a1b23e29dace31f2dbd3a1b098f3056f03e3d18be364d746657779e0f80a10":0
GCM NIST Validation (AES-129,128,256,192,128,112) #0
gcm_decrypt_and_verify:"7b88a2df8f1bd92f75fb0d51d20f32417e8f6edd0745e7938":0"aae7213da279b34d6dcd2a691b2d3033112ea22d6e03c6f847ff9f04ed48e3d9a6e01c83a3a04ac9c2abbb73e103250519b5e8705b6b9e4c0a0afce4d9eb0379db5077b1f66376f28bd88598728a1f2ac1ac4a87e0bcs52b8ab8a0360526a23a8b055d0f3e353457cacaee72f84c156ef8642e5b9e89192f5b3de5c4a5279fiofe06":0"5c06d4341b88388bf2e1d1d87c42d5":5lfa7113d3ae003f4713c070c386d05589b924d7f6c8631f75508415d2431e7f769819b9ed882b2090eceb23d5fd173497503047e5514257e7cf7f2a0bbf881bd6706903dc6610995d67cb800502cbe5194bed54e43e3f9b2f8f2a7fd894df9af6eb46ec12ed8cafbff28d99db23c2bacc8a3b661994ead5f1ee06":0"120:0943abb85ade47ee47715409000cc33f":FAIL":0

GCM NIST Validation (AES-129,128,256,192,128,112) #1
gcm_decrypt_and_verify:"51d94d21482e0b9597c7e7e03aa017ba5f8a23497b4272ca":3"3a9c6e1cd2340bf6d1945658d8b4f547371a19b3922a1d553fd8d0b258f2e803b589818edad1a2526c929596dceda24300c069b6ece3623295f6b1183e040566e45933f89082d3ace51f6e0201cfe1f3d192428f23212b285fe4111d50dad5f84af940002a2290d3632530e9158cd5f69df80f79b7d673555d64d76c74b02fa9902e7d":13"fb21c763e6f2554f8ad545deaccdf0":0"191d1db5569eef83306f6d5d65b01064854c1be84846cd25136336676557844fc349adea6a12dc199c78e406b502a48fac654719a3d699045607859a9c7f8efed99b6f4f449d7763f7530f9348ef876b81767ca8f104aclaacaed785ca1580e8be2f62bee3b8620fe0d6ce88279a9d94779991a9939df3e1febc61ca":0"120:93bd682b57e1d1bf6a6f97e39b98927":0"7093f44703f2eb3d1d29872b07a8cad4d6b2d2ae48b5c73b1t1ee91f0152232423fac181c312a8a161757a3417927799954618d954a913d9b1b84a6a3c5f30710873df27fedda695067095231f3ec39ff8f682770488bed2e1561290f8630d2036e9e4c1e6c9797713082392":d9e15d5e0a9e0a0e4db882ed3ec4534929980bb4c":0

GCM NIST Validation (AES-129,128,256,192,128,112) #2
gcm_decrypt_and_verify:"e67564709375f90df7a67f2ae6d260bdc15ff8e39b15407":0"aaf9e2bd56c42609576633701a99eac5e054904826c64ac24468ec3a1afe603a006b66649745b011c6729bed9859b242e22105322fb8853cadb00165db0817d7a9e0238b651b3f651eb40653a97876e6c2d31125dad4551f38964596dfb5ff522d42e9052bdf43f9c799b0f7e3b5e601190004e7afad55af7d":120:79df97c9734c2794796635f5a0f90"6252860d00138c0405df4b24ec1308b3746039a9eac4e5932fde29999e9e221de8b1099473ed471c46c334023a5d93957ef966240a7e310d874b59561d80b1124eb9b1cf86020c78a1a0335f5029bd346772dd25076482f3be38580f54998fbac88649e6fewecee3458bbf2c50327f144f3b3e2ab8c1a6289":0

GCM NIST Validation (AES-129,128,256,192,128,112)
gcm_decrypt_and_verify:"3db07d34d6b1586694c45b81267b93bed308647fe9e8e789":750bc1d2f917d86bb1e621192a376f553258ba807d590e10a8b35f313b3f5f8ad87c719c03d8548a3b184b741cd6c49df7bfe6b08258d6001c2987337c823211cece7c1e8f2077266889bc7767475e5eaeabbfe6fb5a1de2089aee7f7565d4019c24070880c911e77aa186eacac1732b570574f05c9bdced5428bb395bf7d":10056ed2f282b36de8ce2beb17f1301115d":7f8e1c55c6689848ade2b6be1d4ac2751dd8592abec672af7b989dfae04cbe6924ae0b4a2c299510e270600505fca1e83640e64efb1eb0e0a90af6c475ae1db863a4ec9e27200a0abc8a63d4hadf91e0a05df3e58f86224bede05be4aae8b892249833d566c6b65fd8955cb8a7d7bd94f6b2a29238121287a1525c15d1c":12:51005e9a16ae0d0e1b8d60435":FAIL":0

GCM NIST Validation (AES-129,128,256,192,128,112)
gcm_decrypt_and_verify:"290904781f6a2cb545c551181cb4d4d24b796e95f3a06bc6b9":66db7c97b4a8266f0ca2228e8028e38d8986e79fc8c3acff3050fd2d2e87b77ff7a68959880b0db7fccc6de2d538cfdaad43ece298f6d325005fa6e1683d84cb19157a699cde1266d675a251ee1a2eb97bf6e405d50b02e1b7a58ab6aeaea0a23a28d568fd1c91f06041a49
GCM NIST Validation (AES-192,128,1024,1024,104) #1
gcm_decrypt_and_verify:"b5fcd780a3ba80341081e9f6b4400ce14348a4def64d061c5d16636bc9ab381a2454c1a6e6d6b3269a25c3f0543698f10891675ce618f011588e20e5a375c9f58f4327a59d392b5d732831c1f0640a16b528634554147536f51ad3eb7f02f3c66884f618469f25f978c3f05a3d0f57e425d09e8d50078c18d4f7f69e86997f58208f785c3a45aefb7a5ed1d23f9c6f70cf9df08e289b912e572b54135d8f6f21b6d06168e9e4eefccf7aae9095f654b967b94448be08192139d39007389aaba9e92bb9d72a7ca136db4dab782f76840e9c65af4977d9b04f2e63ad3fba673d3f07dcdb2c3d58691adde65e1e0a58093a4e49445bf2":112:"4d2ac05bf4d4b591b5af670eac7d0":0

GCM NIST Validation (AES-192,128,1024,1024,96) #0
gcm_decrypt_and_verify:"7a66db3450daca9e1e63d2639f433c5a3fbfb3c8e6e120892147536416d0636e166ace:16c5e53096b003547854012c52772d6811270859e33dd447904759e7e5eb298a652a4ccc9f592e614175b5ea2ead636a15e64263362959d9a1ab36d76578c35406693r84b4ec09419c793e9c9d2a21371951cf93244b30dcbef69a4767004366e71b73005e80626fbb92a630a7059e910809059706046a34a78:1631f63b32f63f3bf8f2ff6aa2c160b432babd30363de3eefa1e4ec2f042f4982e37de4d57ce7ca9a245b4c9f4bdfd90f1f5e3fegb0595f5f7dc289c5ebc847753f4d6b2982267d5269d12337e2120a56061849c65e90e6702dd03a53ace3a3a09d16b4fb885b7322404baece37777a9b51a6fbb2359af1704ebe4ecf11061ca391c1ff3":0"ad20c05e674ec5d0a76d6280998f15:2878f2c3fbc1e1b04a0c19ff3c0e10923623f52f43e1eb82bed5309d37bf849a2ce401413df1242cf255ed5978a93a1d6f5067699795a61e528088234a86ddc404292746f0b2fcf15a7bebe6569998e6a1b5a9a1fe4e5aa1d04b3edcb20914e0450954e141ce9c1716363dc91ce3be4ed4a9a28f3915d752b6daba34c3a2s8d8:104:"2ad4520dcd3b90714ad934cc1d":0

GCM NIST Validation (AES-128,128,1024,1024,104) #2
gcm_decrypt_and_verify:"c79b9df9ee63d56883cbbeabaa809273d2e:7c17686f6fb31599eb6def7d1daa41c:9eb49357356ebe087e1475a3587907a9e51ad1550697f13cc04348ec8a67de1a13376ced5e266815c8a78f921b50696e2086de50f84185f05b2a7c33014e9e42c673df856da10978b8e0ce918e25836f7e781e6b1616e4e5979d27ebe83f207b5f4adebecb9f17a5a0b3a3d3b27fc65288a754b5031a2f5a394801e6e112:4d2ac05bf4d4b591b5af670eac7d0":0

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2051c756198d6f782ccf56297b9fe944269a65a":32":"ed6bf7a":"39327836e9d8ecfb59397adcf045a85644c52356329
0795811f26350c88e8e55ca779cd15479d6f8144bba93ef61153955c70f3a7da9d494c2407a0d735784fc68de
1083eebf6940ebe9cf29f139e01404b50366e461126a94e881351473507884357040fd32714b872e25349307106964
4e2bd642905521b944e":0

GCM NIST Validation (AES-128,128,0,0,128) #0
gcm_decrypt_and_verify:"2e78e29971e90a01bb65973f81260b94435f15f142":":"f1a23ce6e2bc9088a62c887abed30ae":":128":"d4d5c22993c8c610145fcbe4e021687":":0

GCM NIST Validation (AES-128,128,0,0,128) #1
gcm_decrypt_and_verify:"8c582d5b6a40e0f4048ec20f0263572d7cc82704e380851":":"ef221a1c66dfa17906190b7c99ab60b8":":128":"6327dcb3d0fd8fb53d2848a80f":":0

GCM NIST Validation (AES-128,128,0,0,128) #2
gcm_decrypt_and_verify:"3a58abadd29e946e23ca9e9ba0a0f59913d35497b1da6a4f":":7c29b31964d4df78fa514a1967fcd3a6":":128":"fc123944bea6c5075af987aed9cf99":FAIL":0

GCM NIST Validation (AES-128,128,0,0,120) #0
gcm_decrypt_and_verify:"04bde4c35c385783715d8a883640851b8600ce0e8436ec19":":783f9a3c36b6d09c9f57c1510531653":":123e21a803ac5237777014686564f":":0

GCM NIST Validation (AES-128,128,0,0,120) #1
gcm_decrypt_and_verify:"4ba5fb90c22f6be10c2d1690c5d99938522de9c5186721bae":":2acc2073089a34d4651eee39a262e8ae":":7ac742e859a02a543b5046ac66decf":":0

GCM NIST Validation (AES-128,128,0,0,120) #2
gcm_decrypt_and_verify:"f12890b0aa8191faa5a8e0e487f0f06af42fa6d5519d009f":":c9376156757384b3227c799833d1e61":":88300bd65b12dcb341f1f6d8a1558":FAIL":0

GCM NIST Validation (AES-128,128,0,0,112) #0
gcm_decrypt_and_verify:"51878f3630298a81297fa4a21514fa637faa3815d4f26fae":":1f939226feb012dabfc2193637d15b1":":eed5fcb7607c038b354746d91c5b":FAIL":0

GCM NIST Validation (AES-128,128,0,0,112) #1
gcm_decrypt_and_verify:"ae596e74840a600556a06f7b13b89e38f67c152f1a1b930":":e2076e1050070d468659885ef7e88d":":b4586bdbd46b899648f2333ee0":FAIL":0

GCM NIST Validation (AES-128,128,0,0,112) #2
gcm_decrypt_and_verify:"f033b7a0efae34339ca9875e88073585fd1276e63cc8530":":2d07bb8616fc0b7b71755a1bd256e77b":":6b60d645220cfded42d88296lac9":FAIL":0

GCM NIST Validation (AES-192,128,0,0,104) #0
gcm_decrypt_and_verify:"5685b12a6617d554c36b62af58ff2239cb3fbb1d2e04e":":6c31194df99d0881fa5b1dd33b45a9":":69431593c376e9f8052bf10747":FAIL":0

GCM NIST Validation (AES-192,128,0,0,104) #1
gcm_decrypt_and_verify:"036ae037410daee9f7041608516d03b855c9c1851df8c54a":":73599275f8237f14c4a52b283c07275":":6f7249d25c9f273434c4720275":FAIL":0
GCM NIST Validation (AES-128,0,0,104) #2

gcm_decrypt_and_verify:"aa8a541ff11a1b8548e832d9e015edeccc94b87dadc156065":"";"c72bb300b624c27cded863e45e6c7857e"";"ea25287e4739be2ed0a0d6b2a"";"0"

GCM NIST Validation (AES-128,0,0,96) #0

gcm_decrypt_and_verify:"ac144f39ebd6124bad85c9c7fb4f75bbff389ecee2e8085d83":"d0871bef3693245be478e6a257c79efb";"104":"5a9d59631d0e12f58b7b95ccd";"FAIL":0

GCM NIST Validation (AES-128,0,0,96) #1

gcm_decrypt_and_verify:"30dd8f400335e9e688e13cc0b1007bd21736a6d395d152e":"28899601fa95f532b305f11b3ebe87011";"365265638589bb7f6ccdb0222":"0"

GCM NIST Validation (AES-128,0,0,96) #2

gcm_decrypt_and_verify:"cb8f672b04d7067d4d125d6830ff5d2ec069569be050ce":"37540143e4793467f4db9b91ba7aa8594";"70610bf329683e15ecf87c91":"FAIL":0

GCM NIST Validation (AES-128,0,0,64) #0

gcm_decrypt_and_verify:"bf71e5b1cd6eb363ecc894958675a1166c10749e1ff1f44":"9f502f5ac90ff5f5616dd1fa837387b";"a4b5138122e1209d":"FAIL":0

GCM NIST Validation (AES-128,0,0,64) #1

gcm_decrypt_and_verify:"5b9d1dfb2303fb66848e363793bdca0e5ada8599cb2e09e24":"2ee96384dd29f8a4e4a6102549a026ab":"3b33a10189338c3b":"FAIL":0

GCM NIST Validation (AES-128,0,0,64) #2

gcm_decrypt_and_verify:"a35ace2717f0ebac82173b37b921f5acb0e0649613222826b":"8d97f354564d8185b57f7727626850b":"813df98a760130c":"0"

GCM NIST Validation (AES-128,0,0,32) #0

gcm_decrypt_and_verify:"9b3d0cb826d5d28c2ab9b777d5a0e15587e78227c53ed4c4f":"d9f29320db629e29ebc9cf7fc9f04a":"a47edadd":"FAIL":0

GCM NIST Validation (AES-128,0,0,32) #1

gcm_decrypt_and_verify:"81bd4d5ee4e1cb10d8966fb3946409e6e64319a4b8323115":"bc2f39320bd629e29ebc9cf7fc9f04a":"a47edadd":"FAIL":0

GCM NIST Validation (AES-128,0,0,32) #2

gcm_decrypt_and_verify:"581362d7d26d568dfe5a0f81824cf561fe455eb98841fe0":"817199254a912880405c9729d75e39":"d81d9b41":"0"
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GCM NIST Validation (AES-192,128,0,1024,128) #1
gcm_decrypt_and_verify:"47858467f0524e7f83eb137fd433e1808af64549af69183":"5334476a5fa3f50dccc4b12f8ac08h511":"e70f82d1e3361a5ac5e9a087e47984d5533ba296f9be4a192a4ab28a833cedbd35e3e3145fc6b6b2f0805560b5c31c98d38d1399541c03a464739f1b5ad982c4371c2f0b8984bb97d5f40b363f5e96df3d2722b957f574be15c3bc05b3caac7d085e5b3d8b2d24e7f6ca6bf76eae0147730ce72b911678f8ffdefc73a":"c59231d3aa9e0e8db6b3fe8f4d3427":":0

GCM NIST Validation (AES-192,128,0,1024,128) #2
gcm_decrypt_and_verify:"49b085fe1a8e1ae769ed0f9c5585d29eb42d59869992e65":"899878b0684b8b865d30190821817b88c":"f789eaf3e0d282b6619ca4fb7a7b1919ec6f7c33824af2f7f815dce50e329979705f7ef619ad7f8999d34f1b8840384ff62ef62d9e38a3c5d12be9294ac9aaf02222cd7444d1958ce6816304ff08d16714a2023bd3d9d40adb5c50afd899c52774d28d6ad2b668425b6a0cbe34d8c532a1e257e9a7729b3e8d96a729b15c":"2e84bf7a89479ab93b10ae084234b4993":":0

GCM NIST Validation (AES-192,128,0,1024,120) #1
gcm_decrypt_and_verify:"75847588760ecb6ca548747b7479314989efa367a5ec8b16":"7d8a9fd254ae2061c01e39eb574957192":"b03c57df49152401a225357f1d63533f3a2d3e53ece07b8a9ea93af686545e5b673bca24214cc447530b276c6d6b9c7f1b2441b88ceac462cececc9d0d65a536b6d779a37727d1f802fd6b2729894808d07403446bab6d6e626ef4e1ab0469da521e7c908b2c95af0df7437c0e9d4d2451ae189ad61ff19f4efb05127":"e8aae14b53cdbc2028d330f6d92a7":":0

GCM NIST Validation (AES-192,128,0,1024,120) #2
gcm_decrypt_and_verify:"3a18a9f62e45d2f607809d3c93ee7160e28cb8108fb09f858":"26a4d659656d39b7a1583e7560dad":"383fd9c58169bc4680323211979775f5e8ee4eb732b040748e1b55d5f53537ae86f9646a672b5c5bc805a92c475cb6d60ed689a58abdf2230250a7d3b8d8cfa7b07e8535fa8e738a77fbc9e39160841b1e61b79f23defa62e1815f295d43f61db5956103b31ca88af6b3d37eb4e2cf772322db2f25806523971397dcbcb":"dc034564db7ed243f6059b5f9160":"FAIL":0

GCM NIST Validation (AES-192,128,0,1024,120) #1
gcm_decrypt_and_verify:"7b3e3909170ea7a2f76f928241d8cc48d8efa8517e6f68c":"8de7e29350c60565f88c989d a6517d2":"f6e99a7a5f9716760eb4306d5c80236a0f11b80f750b5df01fd2db95c556eced2e54a3f337767321ab569c8137a8e48c5b44037ba62951e99f70e6e4540a36d769f3945d01a20a2ed1839e415a16d95c7ab9e9beb188428e30067590a2a5d49a6864324e433d53824d2f8fd326b149af17f40e5bf5e49185738fba60":"942b52277e90a30d737d005f5e97":":0

GCM NIST Validation (AES-192,128,0,1024,112) #0
gcm_decrypt_and_verify:"7e436473ea7571f77603c9e73770f792":"d97b09b299997f7e926a54e4dd2055b3ca189fe6a4f1a5c40c30d737d005f5e97":":0
GCM NIST Validation (AES-128,122,128,1024,0,128) #1

gcm_decrypt_and_verify:"30e44f4beb4bb2di97f523084f5f671b5b99862418a4eac":"df89974b1534fo0ab262be1a5e66e348dc0523dc6dd1437e5f67d2000b17":"6100b901e5236b6b22221d9b687947b6cc66a62a8bb71af1ff7d7ca16ae69e763b84d11aace0ea2a5fa9194b7b326ae46872f7de4547b57d2bde189f5328f64e694f1bde6868aeacbd58e7ce5b505d585d5753033e03b639e1a653b737e175f62497c6c84e3cfdda212482d2d6890dd5d8c2273d25c8ca":0

GCM NIST Validation (AES-128,122,128,1024,0,128) #2

gcm_decrypt_and_verify:"30e44f4beb4bb2di97f523084f5f671b5b99862418a4eac":"df89974b1534fo0ab262be1a5e66e348dc0523dc6dd1437e5f67d2000b17":"6100b901e5236b6b22221d9b687947b6cc66a62a8bb71af1ff7d7ca16ae69e763b84d11aace0ea2a5fa9194b7b326ae46872f7de4547b57d2bde189f5328f64e694f1bde6868aeacbd58e7ce5b505d585d5753033e03b639e1a653b737e175f62497c6c84e3cfdda212482d2d6890dd5d8c2273d25c8ca":0

GCM NIST Validation (AES-128,122,128,1024,0,120) #0

gcm_decrypt_and_verify:"6be3c66b20e5e66abbb1b38e5a716eafce23a176b69":"de1cd98735a499415176f26021abe08c5bc34d166f5d32d0e2e4131e77ce4ef5f7d583733c62251a3b4dddead0eae230c5e6037fd5d8a558eb53bff4a5e7ceed5989a9fa8284aabf503e1a48599a9154d237779d8a031b7ad5ed326d6abe3b7757c777d6ad5f0bed14aoc0b2b88fb1c34eb7e034f9d9d1002d6":"a950ab0dd915f02d12d17281b88bf23996926":"fd1f7b56e5664c4f9e158f7c506f5e98e24a2e4adcc03348ee66f623824ad202a44d78e69b976a24dfc4f93c27f0be42a14648af7d14b09d5f87513033b1f9711aan2a95df899bece6a3b8afo78dd130071df20a68c0d994e25dbb3e85b0d40df749796a0f150da7e686320207d9b3b35e3a0":0

GCM NIST Validation (AES-128,122,128,1024,0,120) #1

gcm_decrypt_and_verify:"d16ab5b59f3bd757a5bb9adc369955ce6ce928ed822a07b7c":"e72f29b1fcd1dbfd2d93af03b79ea4b9806e9cb2e4d490ac50c3c73979df7e834df818a5a751f69a81a9bb9ae2f038a547305477281a1f60fe97d8b1da0d23d3e118472b9bf8d8783ec364a6365530c905d6d2f745e459795ac127af6356f36c6e116c5dd8e28e71e71faefb588452b2f153e3c133198118":"3cd59429e6de13d279eb9e0e45244a87e":"130251236f1907875e098c735b23":"cd88b79c2d092f678356f256d22cd2c4722ab9a04c7eeb7e782879f9389dc1dd2012327721bfb9939a0445575678ec61b49e25817e6fd943878f84ecaafbf1a21d6ed5e7f5025f4780d2905cf799ad1f83063a9850c908e05f87cb1d36a4837db24a8ac97df7ebce83778f8d1a31295950e87fc994db0766ed93":0

GCM NIST Validation (AES-128,122,128,1024,0,112) #1

gcm_decrypt_and_verify:"0b3ca4ba1a4708780e5f53a6e7e1e36fa83108473aa2f4c":"8bd73f94c717365bc7d17fdd9c9a9b9afa99f4b84b3600e4048898f5bbd7e30c637366f5372480fbc2296dc11e1123134912760a737104dcd376eaa6e91b9a60a5ca45972935df12eadae07472bdc01473c3cafa6a2fd449e3f7d7665f66d210283e94ac524e13186e44d80a70b1e4373c0e462546f0c2ee6b49e738a742c":"bd50f5cb4a6e4e6e2e58df29f5f56959f9":"18050f7f1bb879f56ea2e43ff6ff50":"FAIL":0

GCM NIST Validation (AES-128,122,128,1024,0,112) #2

gcm_decrypt_and_verify:"c80973998f021193e9ea9a5a93a3231096817b65520b4c":"80b0abbebbbd537a0810ed75cdd1722d950f5982e4d01f8664dd2d5fda857fa0ed87e64a779a1d7f5e568b6acfd37957a2a717f6752037403bfb1afac3c2c346477cebe7d01b16745ca6c8929a7f44e603ad9a9e8a5935de78a6c70e8c1e562550e42949c5342f5e4c6a

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```
# GCM NIST Validation (AES-128,120,1024,0,96) #0
gcm_decrypt_and_verify:"98581c28893c4da321ce0c419cc0d476359e77da513c849":"":"7fe4388b2f8e0b0f0c2d6a085274":"FAIL":0

GCM NIST Validation (AES-192,128,1024,0,96) #0
gcm_decrypt_and_verify:"98581c28893c4da321ce0c419cc0d476359e77da513c849":"":"7fe4388b2f8e0b0f0c2d6a085274":"FAIL":0

GCM NIST Validation (AES-192,128,1024,0,112) #0
gcm_decrypt_and_verify:"a3e5020695587984074d78d9c98b8e1a5719e5f88372740e":"0bfe3b2dc4dad17ec5a7662d80847f8705089e305d42e32eb1a5ce829f7947c43903d2ecf1a7007e8c78f899b8f20b703d963ab7971d47c7f26939a8eb4e290769ed61576f7643a3c1f687301ed730776669fe332880e74a0b7e62a1ca2bdee1dc1ff8f8e1873d25845ec76657e125c5bb02a918786342bce122836":"f85a95ed10b69623162ab68d1098de94":"FAIL":0
gcm_decrypt_and_verify:"afe986ead9799727063958e2ce13c8a46f76c51605439f89":"7c1b354a5b214b9d5157e32d816e58705089c305d42e32eb1a5ce829f7947c43903d2ecf1a7007e8c78f899b8f20b703d963ab7971d47c7f26939a8eb4e290769ed61576f7643a3c1f687301ed730776669fe332880e74a0b7e62a1ca2bdee1dc1ff8f8e1873d25845ec76657e125c5bb02a918786342bce122836":"f85a95ed10b69623162ab68d1098de94":"FAIL":0
gcm_decrypt_and_verify:"98581c28893c4da321ce0c419cc0d476359e77da513c849":"":"7fe4388b2f8e0b0f0c2d6a085274":"FAIL":0

GCM NIST Validation (AES-192,128,1024,0,112) #0
gcm_decrypt_and_verify:"98581c28893c4da321ce0c419cc0d476359e77da513c849":"":"7fe4388b2f8e0b0f0c2d6a085274":"FAIL":0

GCM NIST Validation (AES-192,128,1024,0,112) #0
gcm_decrypt_and_verify:"98581c28893c4da321ce0c419cc0d476359e77da513c849":"":"7fe4388b2f8e0b0f0c2d6a085274":"FAIL":0
```
123f87b98d6708de48faca4b7dd818a7ea7c6ca4357932e59eb6be0e9283bddb9454b8699fd04a8cdef503c6d513fc
ff42e9c8f142f8c06cf7daad86de88b9e9d693e98afdf8900490efc7f13fd76b4a814b":0

GCM NIST Validation (AES-192,128,1024,0,64) #0
gcm_decrypt_and_verify":"4470f0657716b1219952e5252206a64e08444658ed8653e9cd":"feeda5227869e527882c63a68
a6623f4a699d82b3dc175c7260a5554336df837674c0a58e9c27404042d2f91c5e929405579df4d1321436821c21bdec3
dfaaeb62128ec282018725c8dd309d2376223de2dedf8a79e756599b2630ff5df9fbebca4160ca6418b938d195d3a08e4
034c49d79e3a249dd6f5982530be33444dd02":"37e3a30542d9ceaf3975c6429cb8a2e8":"32":"06bfa29":"e1b1dd1c212b159bb87e441a564dcb6b72aaff05c8871fab5b88dfe06b37703ce1be0be3388fb69c34780bf3e5b3b
5b420c1c6f92a2aa60f3917e8203d77c75f6e08ba9f9ab12fd38fc0ff88307ba781c3dd76b2edca212f68ef23b042b8a
dbd4cea072209d07213789ed559b83739a54cf6d6e968db4c128":0

GCM NIST Validation (AES-192,128,1024,0,32) #0
gcm_decrypt_and_verify":"4470f0657716b1219952e5252206a64e08444658ed8653e9cd":"feeda5227869e527882c63a68
a6623f4a699d82b3dc175c7260a5554336df837674c0a58e9c27404042d2f91c5e929405579df4d1321436821c21bdec3
dfaaeb62128ec282018725c8dd309d2376223de2dedf8a79e756599b2630ff5df9fbebca4160ca6418b938d195d3a08e4
034c49d79e3a249dd6f5982530be33444dd02":"2e73a50542d9ceaf3975c6429cb8a2e8":"32":"06bfa29":"e1b1dd1c212b159bb87e441a564dcb6b72aaff05c8871fab5b88dfe06b37703ce1be0be3388fb69c34780bf3e5b3b
5b420c1c6f92a2aa60f3917e8203d77c75f6e08ba9f9ab12fd38fc0ff88307ba781c3dd76b2edca212f68ef23b042b8a
dbd4cea072209d07213789ed559b83739a54cf6d6e968db4c128":0
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GCM NIST Validation (AES-192,128,1024,1024,104) #0
gcm_decrypt_and_verify:"a7ef81652f604ea88a2742169f435979273cad3575eda1":"9ec9da98e99bfa843486ee1bbfbd8d9053c5e04b24e30174d4aa89d8307439d65f983630eddadfd51719c744cb4bcee3e444847567bd2cdce29598750d064cc0b02a6b3c8b58062fb83874a1c2b50aeb945bd109a151772ce077438ed4caeebe5b60653699ac236ced117f3a0ff61d630662f24c1e76f9735f846c503bed505e10b52e3e2"c9e9caae5489e85f3e932525f56356ab32b2"d0195b744351aa25a57a99df9573dafa3ee9850139149b4674e4aaf37756a430dda8af98e4ed480e913a8282c101c175b187e105a8f36921757d522c083a8d1d7d8bfe1f51c439d0692ba6ff65d5a1beb2457046eae996a1075e6602986788bcd23503ae04037dde4f427baf5d500d1f516002f90ccff02500e8c1bb2de0:"
22c2effdedf59cd5b288614eb":"FAIL":0

GCM NIST Validation (AES-192,128,1024,1024,104) #1
gcm_decrypt_and_verify:"605271a41e263c92dc14fe9df5203e7950c3d2a18d926948f5015090c1757a81978e37770fa78da94370c58f9e678f88242392":"af9994b6f64f0e8df550f3ae0a07a31c114d62f9eca047e48ad547137bcfc8ceded590c1517797fe0492d49a928ed7bd3451ec3a01172619035a212d45f4812e5343e14b9dedc93884efc30e232d215b4d2476ee961a17ac7295069f25b2a12d6e2efe769d1f5632b4e61ff19a95d52ae5a5a682fe1101c145acbbb823333b5dbdd9":"FAIL":0

GCM NIST Validation (AES-192,128,1024,1024,104) #2
gcm_decrypt_and_verify:"fa706f36cb678ee22775561e9553ebdf397360e5a5e44791c4":"513305e860c0b0468c5d27e25a046392766db1fb7de2758ed378e0f2682e8218e61f3569460f22c45a578959b424442126ba3a0606d4e24701f358281d4364a4d0e80f8efed2c31808a9ea06d3fb7250159a19f72cadcfe7990a9ee109eac391ac807afed1776ae0515b9c1b51a9e448b38fe7fe60dcee56294e59ae":"51cd35d94e287047ff184e89b51a26":"51f42f7bac5f765f339eddf2d2b2991fd7c4ad504a520159da04952bb2e94853b8d77b1c3451ec4ac3a01172619035a212d45f4812e5343e14b9dedc93884efc30e232d215b4d2476ee961a17ac7295069f25b2a12d6e2efe769d1f5632b4e61ff19a95d52ae5a5a682fe1101c145acbbb823333b5dbdd9":"FAIL":0

GCM NIST Validation (AES-192,128,1024,1024,96) #0
gcm_decrypt_and_verify:"fa706f36cb678ee22775561e9553ebdf397360e5a5e44791c4":"513305e860c0b0468c5d27e25a046392766db1fb7de2758ed378e0f2682e8218e61f3569460f22c45a578959b424442126ba3a0606d4e24701f358281d4364a4d0e80f8efed2c31808a9ea06d3fb7250159a19f72cadcfe7990a9ee109eac391ac807afed1776ae0515b9c1b51a9e448b38fe7fe60dcee56294e59ae":"51cd35d94e287047ff184e89b51a26":"51f42f7bac5f765f339eddf2d2b2991fd7c4ad504a520159da04952bb2e94853b8d77b1c3451ec4ac3a01172619035a212d45f4812e5343e14b9dedc93884efc30e232d215b4d2476ee961a17ac7295069f25b2a12d6e2efe769d1f5632b4e61ff19a95d52ae5a5a682fe1101c145acbbb823333b5dbdd9":"FAIL":0
GCM NIST Validation (AES-192,128,1024,1024,96) #1

gcm_decrypt_and_verify:"8a328554f6ed68c48388bf9d1629ee10cb6367dadde54f7e69c9b5979d4cc1f29d5f6e87b8f52b1213d3a15e2f29b105f
5b3342bf39d07867db8cbc5f29759d4ec654c54f"::"e47f69a1d026eebfe5c4777bd73b3538"::"e3495edeb0f8c771c8f20f6d
510b80c3df32a3326484e25aa18305914ae7844bc46f175e61fd64fa71759ee90cfbc72ae220b5d0f7b0f398b689d3a29fb9397
eded58f26ada9ce0f3f5109ff82ef47c7e7b17313049750ad17696e7550cd0493ed18ee27843d82bceef87bc3
833d569bb7372998595a5a1d871089f6d238da::"96::"8e8320912fff628f47e92420"::"a1ed65cfe71aeaccdec5310bce1d7c49
ce7aa8445e0fc02985f6122c4105888c7d62e2e28ad7a62748610b16657490f6016ad03c8880037d4244ee59e109d
4452028047303930367b60893a782184477b1b2398c4d0b3aa8b57a53891ad6d0dc1b696ad75e6284c7bb4f3c3
aade4a896e6e87c87693ef990f6f65266"::0

GCM NIST Validation (AES-128,1024,128,1024,64) #2

gcm_decrypt_and_verify:"6e7f66f4b022312de5c8c40e4d1d7a37580d74499107f8c88::"4f5bd5ff55abff778549f749f
2265e17dc7225713ee36ed7be1633f7017557d22c4007b05c07908605f18936414ac6f06b1638786e0c3c8a8df0
a57ce4ef3d3c55f36d088ae12f0837ff9b9d19dbb35f6ed7491767fc7db893d8451b18aeb06e9210571215835f5eden7
7f97b260cece17a913f23485586f4ed0c64a8::"6e13485f18b8056b20d524344d7e::"c860a82bdc34ede14fe458c8b
7ca2564ada9f6b7b54d2c1d88ba913f1313n762ac3ed2afe0bc80aedc9b193e405ef343920754023383f15
20e77fa4624b0387343ce1bd9449e5d5055b5135c7fc9e285390ecf45a709113647e368d9076594caf3d6304753
8e652178c37a52e94a246a79784475760819::"974bdc4a8ac1563a0e0c0e::"FAIL":0

GCM NIST Validation (AES-128,1024,128,1024,64) #0

gcm_decrypt_and_verify:"466de9820fe0f0d7d04a84384ec56739b69626d0500e4b7f::"a5160f2b297b55a7e5ba0df3
a3a424041880f24492d46f6e03c67732d4f651e7ed30a2768237036c045a4a0f7391c81f809b8ce5e97799ec9848
415e451ce3c7f19acc3f80d215e58535d31444ece7e8b9b527edbe14416110946f7cc4dec2a1c644bbc2cf7779a
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0b935fb9471e8675773295d235f06a83b6973fcd052a32b02ce2cd19040a38987b0b0
7c901f30a85de51eaff9f7d4703ceeb2ca72abe0bd146ba0bd3ffdee11623801db7d65ea1343b018084ea21499586f
efb45ba919de223629078b4a305761b5::"64::"84f1ef34d3f8e84:"FAIL":0

GCM NIST Validation (AES-128,1024,128,1024,64) #1

gcm_decrypt_and_verify:"991deac2e8f6d2b4e64e2a3c0e696067fe5f9e10b3496a::"9cdec027f0c2011e1cb1497440d2
82516c7f46d22a4091f8d3c150abf9b38030df7d8229da038b8d56a009c71490598d0d968992df23978ee2b
8a2c2e62fc51220a3e682963f550806c5a16736cccb18ed04ec7390021d244db9f2abde89e39a48b3f28211c8a6
259bbd6ac2af1da7db8c153523805606381::"978913d2c822a7c7c657041d5e646759::"7a546d8e7a8f0a2632183
b60215b9752292194b896f0c13b0f8e29133ed316918261c313ee439059d39a3e8b891afe0264b7a50e5c6
a4ae17e812098c58950d335b3c5e1ae34a1a92ab979e0e6213205139490ae4a9bbff8d899ba1e33b15bdf05c4d1d8
3a577454a4561a5757c8564acdfc8500a2f52367::"64::"15d456da7645abf2::"FAIL":0

GCM NIST Validation (AES-128,1024,128,1024,64) #2

gcm_decrypt_and_verify:"f2c9ff00781f5916930f125489c8e7821f6593324d1506f5j::"a3e8595747b1747d41ae4f3e
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GCM NIST Validation (AES-192, 128, 1024, 1024, 32)

GCM NIST Validation (AES-192, 128, 1024, 1024, 32)

GCM NIST Validation (AES-192, 128, 1024, 1024, 32)

-----BEGIN RSA PRIVATE KEY-----
Proc-Type: 4, ENCRYPTED
DEK-Info: AES-128-CBC, B5FA3F70C2AF79EB9D3DD2C40E7ACE61A

iyofvyyTPPR7on4XPFxu6CoGtQh88R0ISlm+MRJ lhjm/MqGexbgDOZeI2CPf4xFzif
tyevKD/pqCaCMesYJh/HDCQICLDw2rGbwzPajg72xkCFD6+1NHOGoDdbQWNhGVmg
Cipher Selftest

depends_on: POLARSSL_SELF_TEST
cipher_selftest:

Decrypt empty buffer
dec_empty_buf:

AES Encrypt and decrypt 0 bytes
depends_on: POLARSSL_AES_C
c_enc_dec_buf: POLARSSL_CIPHER_AES_128_CBC:AES-128-CBC:128:0

AES Encrypt and decrypt 1 byte
depends_on: POLARSSL_AES_C
c_enc_dec_buf: POLARSSL_CIPHER_AES_128_CBC:AES-128-CBC:128:1

AES Encrypt and decrypt 7 bytes
depends_on: POLARSSL_AES_C

AES Encrypt and decrypt 8 bytes
depends_on: POLARSSL_AES_C
c_enc_dec_buf: POLARSSL_CIPHER_AES_128_CBC:AES-128-CBC:128:8

AES Encrypt and decrypt 9 bytes
depends_on: POLARSSL_AES_C

AES Encrypt and decrypt 15 bytes
depends_on: POLARSSL_AES_C
c_enc_dec_buf: POLARSSL_CIPHER_AES_128_CBC:AES-128-CBC:128:15

AES Encrypt and decrypt 16 bytes
<table>
<thead>
<tr>
<th>Encryption/Decryption</th>
<th>Data Size</th>
<th>Dependencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>AES Encrypt and decrypt 17 bytes</td>
<td>17 bytes</td>
<td>POLARSSL_AES_C</td>
</tr>
<tr>
<td>AES Encrypt and decrypt 31 bytes</td>
<td>31 bytes</td>
<td>POLARSSL_AES_C</td>
</tr>
<tr>
<td>AES Encrypt and decrypt 32 bytes</td>
<td>32 bytes</td>
<td>POLARSSL_AES_C</td>
</tr>
<tr>
<td>AES Encrypt and decrypt 47 bytes</td>
<td>47 bytes</td>
<td>POLARSSL_AES_C</td>
</tr>
<tr>
<td>AES Encrypt and decrypt 48 bytes</td>
<td>48 bytes</td>
<td>POLARSSL_AES_C</td>
</tr>
<tr>
<td>AES Encrypt and decrypt 49 bytes</td>
<td>49 bytes</td>
<td>POLARSSL_AES_C</td>
</tr>
<tr>
<td>AES Encrypt and decrypt 0 bytes in multiple parts</td>
<td>0 bytes</td>
<td>POLARSSL_AES_C</td>
</tr>
<tr>
<td>AES Encrypt and decrypt 1 byte in multiple parts 1</td>
<td>1 byte</td>
<td>POLARSSL_AES_C</td>
</tr>
<tr>
<td>AES Encrypt and decrypt 1 byte in multiple parts 2</td>
<td>1 byte</td>
<td>POLARSSL_AES_C</td>
</tr>
<tr>
<td>AES Encrypt and decrypt 16 bytes in multiple parts 1</td>
<td>16 bytes</td>
<td>POLARSSL_AES_C</td>
</tr>
<tr>
<td>AES Encrypt and decrypt 16 bytes in multiple parts 2</td>
<td>16 bytes</td>
<td>POLARSSL_AES_C</td>
</tr>
</tbody>
</table>
depends_on:POLARSSL_AES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CBC:128:0:16:

AES Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_AES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CBC:128:1:15:

AES Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_AES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CBC:128:15:1:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CBC:128:15:7:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CBC:128:16:6:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CBC:128:16:16:

AES Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CBC:128:16:16:

AES Encrypt and decrypt 0 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB

AES Encrypt and decrypt 1 byte
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB

AES Encrypt and decrypt 2 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB

AES Encrypt and decrypt 7 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB

AES Encrypt and decrypt 8 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB

AES Encrypt and decrypt 9 bytes
AES Encrypt and decrypt 15 bytes
depends_on: POLARSSL_AES_C: POLARSSL_CIPHER_MODE_CFB

AES Encrypt and decrypt 16 bytes
depends_on: POLARSSL_AES_C: POLARSSL_CIPHER_MODE_CFB

AES Encrypt and decrypt 17 bytes
depends_on: POLARSSL_AES_C: POLARSSL_CIPHER_MODE_CFB

AES Encrypt and decrypt 31 bytes
depends_on: POLARSSL_AES_C: POLARSSL_CIPHER_MODE_CFB

AES Encrypt and decrypt 32 bytes
depends_on: POLARSSL_AES_C: POLARSSL_CIPHER_MODE_CFB

AES Encrypt and decrypt 47 bytes
depends_on: POLARSSL_AES_C: POLARSSL_CIPHER_MODE_CFB

AES Encrypt and decrypt 48 bytes
depends_on: POLARSSL_AES_C: POLARSSL_CIPHER_MODE_CFB

AES Encrypt and decrypt 49 bytes
depends_on: POLARSSL_AES_C: POLARSSL_CIPHER_MODE_CFB

AES Encrypt and decrypt 0 bytes in multiple parts
depends_on: POLARSSL_AES_C: POLARSSL_CIPHER_MODE_CFB
cenc_dec_buf_multipart: POLARSSL_CIPHER_AES_128_CFB128: 128: 0: 0:

AES Encrypt and decrypt 1 bytes in multiple parts 1
depends_on: POLARSSL_AES_C: POLARSSL_CIPHER_MODE_CFB
cenc_dec_buf_multipart: POLARSSL_CIPHER_AES_128_CFB128: 128: 1: 0:

AES Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CFB128:128:0:1:

AES Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB
encldec_buf_multipart:POLARSSL_CIPHER_AES_128_CFB128:128:16:0:

AES Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB
encldec_buf_multipart:POLARSSL_CIPHER_AES_128_CFB128:128:0:16:

AES Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB
encldec_buf_multipart:POLARSSL_CIPHER_AES_128_CFB128:128:1:15:

AES Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB
encldec_buf_multipart:POLARSSL_CIPHER_AES_128_CFB128:128:15:1:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB
encldec_buf_multipart:POLARSSL_CIPHER_AES_128_CFB128:128:15:7:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB
encldec_buf_multipart:POLARSSL_CIPHER_AES_128_CFB128:128:16:6:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB
encldec_buf_multipart:POLARSSL_CIPHER_AES_128_CFB128:128:16:16:

AES Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB
encldec_buf_multipart:POLARSSL_CIPHER_AES_128_CFB128:128:16:16:

AES Encrypt and decrypt 0 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
encldec_buf:POLARSSL_CIPHER_AES_128_CTR:AES-128-CTR:128:0

AES Encrypt and decrypt 1 byte
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
encldec_buf:POLARSSL_CIPHER_AES_128_CTR:AES-128-CTR:128:1

AES Encrypt and decrypt 2 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR

AES Encrypt and decrypt 7 bytes
AES Encrypt and decrypt 8 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR

AES Encrypt and decrypt 9 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_AES_128_CTR:AES-128-CTR:128:8

AES Encrypt and decrypt 15 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR

AES Encrypt and decrypt 16 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR

AES Encrypt and decrypt 17 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR

AES Encrypt and decrypt 31 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR

AES Encrypt and decrypt 32 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR

AES Encrypt and decrypt 32 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR

AES Encrypt and decrypt 47 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR

AES Encrypt and decrypt 48 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR

AES Encrypt and decrypt 49 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR

AES Encrypt and decrypt 0 bytes in multiple parts
AES Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
c enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:0:0:

AES Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
c enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:1:0:

AES Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
c enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:16:0:

AES Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
c enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:0:16:

AES Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
c enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:1:15:

AES Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
c enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:15:1:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
c enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:15:7:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
c enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:16:6:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
c enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:17:6:

AES Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
c enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:16:16:

AES Encrypt and decrypt 0 bytes
depends_on:POLARSSL_AES_C
c enc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:0

AES Encrypt and decrypt 1 byte
AES Encrypt and decrypt 2 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:2

AES Encrypt and decrypt 7 bytes
depends_on:POLARSSL_AES_C

AES Encrypt and decrypt 8 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:8

AES Encrypt and decrypt 9 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:9

AES Encrypt and decrypt 15 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:15

AES Encrypt and decrypt 16 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:16

AES Encrypt and decrypt 17 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:17

AES Encrypt and decrypt 31 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:31

AES Encrypt and decrypt 32 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:32

AES Encrypt and decrypt 32 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:33

AES Encrypt and decrypt 47 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:47

AES Encrypt and decrypt 48 bytes
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:48

AES Encrypt and decrypt 49 bytes
depends_on:POLARSSL_AES_C
encc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:49

AES Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_AES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_AES_192_CBC:192:0:0:

AES Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_AES_192_CBC:192:1:0:

AES Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_AES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_AES_192_CBC:192:0:1:

AES Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_AES_192_CBC:192:16:0:

AES Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_AES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_AES_192_CBC:192:0:16:

AES Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_AES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_AES_192_CBC:192:1:15:

AES Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_AES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_AES_192_CBC:192:15:1:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_AES_192_CBC:192:15:7:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_AES_192_CBC:192:16:6:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_AES_192_CBC:192:17:6:

AES Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:192:16:16:

AES Encrypt and decrypt 0 bytes
depends_on:POLARSSL_AES_C
everdec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:0

AES Encrypt and decrypt 1 byte
depends_on:POLARSSL_AES_C
everdec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:1

AES Encrypt and decrypt 2 bytes
depends_on:POLARSSL_AES_C
everdec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:2

AES Encrypt and decrypt 7 bytes
depends_on:POLARSSL_AES_C
everdec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:7

AES Encrypt and decrypt 8 bytes
depends_on:POLARSSL_AES_C
everdec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:8

AES Encrypt and decrypt 9 bytes
depends_on:POLARSSL_AES_C
everdec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:9

AES Encrypt and decrypt 15 bytes
depends_on:POLARSSL_AES_C
everdec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:15

AES Encrypt and decrypt 16 bytes
depends_on:POLARSSL_AES_C
everdec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:16

AES Encrypt and decrypt 17 bytes
depends_on:POLARSSL_AES_C
everdec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:17

AES Encrypt and decrypt 31 bytes
depends_on:POLARSSL_AES_C
everdec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:31

AES Encrypt and decrypt 32 bytes
depends_on:POLARSSL_AES_C
everdec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:32

AES Encrypt and decrypt 32 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:33

AES Encrypt and decrypt 47 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:47

AES Encrypt and decrypt 48 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:48

AES Encrypt and decrypt 49 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:49

AES Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_AES_C
cenc_dec_buf_multipart:POLARSSL_CIPHER_AES_256_CBC:256:0:0:

AES Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
cenc_dec_buf_multipart:POLARSSL_CIPHER_AES_256_CBC:256:1:0:

AES Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_AES_C
cenc_dec_buf_multipart:POLARSSL_CIPHER_AES_256_CBC:256:0:1:

AES Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
cenc_dec_buf_multipart:POLARSSL_CIPHER_AES_256_CBC:256:16:0:

AES Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_AES_C
cenc_dec_buf_multipart:POLARSSL_CIPHER_AES_256_CBC:256:0:16:

AES Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_AES_C
cenc_dec_buf_multipart:POLARSSL_CIPHER_AES_256_CBC:256:1:15:

AES Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_AES_C
cenc_dec_buf_multipart:POLARSSL_CIPHER_AES_256_CBC:256:15:1:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
cenc_dec_buf_multipart:POLARSSL_CIPHER_AES_256_CBC:256:15:7:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
enc_dec_buf multipart:POLARSSL_CIPHER_AES_256_CBC:256:16:6:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
enc_dec_buf multipart:POLARSSL_CIPHER_AES_256_CBC:256:17:6:

AES Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
enc_dec_buf multipart:POLARSSL_CIPHER_AES_256_CBC:256:16:16:

-----BEGIN X509 CRL-----
MIIlBzCBIDANBgkqhkiG9w0BAQUFADgA7MQswCQYDVQQGEwJOTDERMA8GA1UEChMI
UG9sYXJTU0wgxGTAXBgNVBAMTEFBDVBvbGFyU1NMIHFRlc3QgQ0EXDTEvMDIyMDEwMjI1
OVoXDTExMTEyNTEnMTIwMDAwNzQxMDAwMDIyMDEyMzIyMDAwMDIyMDEyMzIyMDAwMDIyMDEyMzIy
yC0ZSJlFomt7i4T4GggWVfUmpyHDDedcNhYPr0nit2mrz+EQf9fQiyz1q0nx+p+x
NbKXDiPoPmX0qVlcCZSeSp1JAuM4o5GoCO+96qEuPiqil+6xWya3UNj61f9sh0Zr7
5ug2LZo5uBM/LpN1K3TXLxNCcg7uUTn9r143d71vJhPl3tfJn4Pxy6mLlOOGU=-----
-END X509 CRL-----

-----BEGIN RSA PRIVATE KEY-----
Proc-Type: 4,ENCRYPTED
DEK-Info: DES-EDE3-CBC,87427D4692AF2A7

9ZXjoF55A9XgJpdawM6f/FL1sJFbnE1M4Z2NHHtRwpq1/K+afC9poM0/AdCu6R1Lw
uvQERievbaAYpNeLdah1EftM6033e10tXUMidL4orDKcbb3qDp5Qb0oU3jvabT+vd
aruIW8eVP4dz3ymYvrgkjuigzd7t+4wM0T1mTTuycRJKQhL7Q0Qy2rBILXLgUAXA4
Hmyy4GisXVUSON8vPXT12VueubEIaVlnLTrFRGvRA4q5bty9GBymkNCBv+LCw
JWJLtbQWfmoHzioqY2BaHDcySpTD4X5AwrcJiiUN09BnWLAmtdOWr0z+48E
P/yWr5xZISDrkh9r9Egb9xTThum3ylHy7vBXL0U+94owamd4Lq3QijRgjQXeO0P
zoCOVxwN1EI1MhleUVpV7L8mbt2h00yvrSS5ByrGahru9GQyy7qxy9ZANkgxF
3hpMDuzQXMJuIeG9v2YsMEdGdAl1A/8V5r+oceB5cC7za5MjMzvuti8s17Buu6dSE
cA8VfysK/DQ/hSt0aSppghb9mZp8dN6GMCz+b7T0fhtC4r4m3EYkgQqecKXfU3Fz
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mv5ZISFWWQrvN5JPQJka7aU2ITu1ULK6mXBu+D5D0OqQr4qQytkQohQH1785Hs
QjtBGkFEdlWgubPX/S8/xnoTMoQy/c+dr6iwcswyUnSJXh32KLPGBnoQWCCyB
jp/VYmneb117NgpEJKJhcNbrP7DoQrc3/D7JFXnOvTa/z6FOtUmz0rQ==-----
-END RSA PRIVATE KEY-----

-----BEGIN X509 CSR-----
MIllBzCBIDANBgkqhkiG9w0BAQAFADgA7MQswCQYDVQQGEwJOTDERMA8GA1UEChMI
UG9sYXJTU0wgxGTAXBgNVBAMTEFBDVBvbGFyU1NMIHFRlc3QgQ0EXDTEvMDIyMDEwMjI1
OVoXDTExMTEyNTEnMTIwMDAwNzQxMDAwMDIyMDEyMzIyMDAwMDIyMDEyMzIyMDAwMDIyMDEyMzIy
yC0ZSJlFomt7i4T4GggWVfUmpyHDDedcNhYPr0nit2mrz+EQf9fQiyz1q0nx+p+x
NbKXDiPoPmX0qVlcCZSeSp1JAuM4o5GoCO+96qEuPiqil+6xWya3UNj61f9sh0Zr7
5ug2LZo5uBM/LpN1K3TXLxNCcg7uUTn9r143d71vJhPl3tfJn4Pxy6mLlOOGU=-----
-END X509 CSR-----
<PreprocessorDefinitions>WIN32;NDEBUG;_CONSOLE;%{PreprocessorDefinitions}</PreprocessorDefinitions>
<AdditionalIncludeDirectories>././include</AdditionalIncludeDirectories>
</ClCompile>
</Link>
</SubSystem>Console</SubSystem>
<GenerateDebugInformation>true</GenerateDebugInformation>
<EnableCOMDATFolding>true</EnableCOMDATFolding>
<OptimizeReferences>true</OptimizeReferences>
<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
</Link>
</ItemDefinitionGroup>
<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)="Release|x64">
<ClCompile>
<WarningLevel>Level3</WarningLevel>
<PrecompiledHeader>
</PrecompiledHeader>
<Optimization>MaxSpeed</Optimization>
<FunctionLevelLinking>true</FunctionLevelLinking>
<IntrinsicFunctions>true</IntrinsicFunctions>
<PreprocessorDefinitions>WIN64;NDEBUG;_CONSOLE;%{PreprocessorDefinitions}</PreprocessorDefinitions>
<AdditionalIncludeDirectories>././include</AdditionalIncludeDirectories>
</ClCompile>
<Link>
<SubSystem>Console</SubSystem>
<GenerateDebugInformation>true</GenerateDebugInformation>
<EnableCOMDATFolding>true</EnableCOMDATFolding>
<OptimizeReferences>true</OptimizeReferences>
<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
</Link>
</ItemDefinitionGroup>
<Import Project="$(VCTargetsPath)\Microsoft.Cpp.targets" />
<ImportGroup Label="ExtensionTargets" />
</ImportGroup>
</Project>
Certificate:
Data:
Version: 3 (0x2)
Serial Number: 6 (0x6)
Signature Algorithm: md5WithRSAEncryption
Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
Validity
Not Before: Feb 12 14:44:07 2011 GMT
Not After : Feb 12 14:44:07 2021 GMT
Subject: C=NL, O=PolarSSL, CN=PolarSSL Cert MD5
Subject Public Key Info:

Public Key Algorithm: rsaEncryption

RSA Public Key: (2048 bit)

Modulus (2048 bit):
be:11:ad:5c:73:16:0c:64:11:48:04:ff:6e:1:3b:
07:67:0b:03:2f:fa:2:09:ed:f0:33:8f:0b:ce:10:ef:
17:f7

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Basic Constraints:
CA:FALSE

X509v3 Subject Key Identifier:

X509v3 Authority Key Identifier:

Signature Algorithm: md5WithRSAEncryption

e0:fd:44:26:3:ad:ea:af:1:d:0:0:0:56:41:4e:fd:b0:3b:9d:
32:6f:48:ce

-----BEGIN CERTIFICATE-----
XTEA Decrypt_ecb #5
xtea_decrypt_ecb: "00000000000000000000000000000000": "ed23375a821a8c2d": "4141414141414141"

XTEA Decrypt_ecb #6
xtea_decrypt_ecb: "00000000000000000000000000000000": "4141414141414141": "70e1225d6e4e7655"

XTEA Selftest
depends_on: POLARSSL_SELF_TEST
xtea_selftest:

-----BEGIN CERTIFICATE REQUEST-----
MIICgTCCAWkCAQAwPDELMAkGA1UEBhMCTkwxETAPBgNVBAoTCFBvbGFyU1NMMRow
GAYDVQDEExFQb2xhcNTTCTBTXJ2ZXIgMTCCASiwDQYJKoZIhvNAQEBAQADggEP
ADCCAQoCggEBABbbXhZ1AatVVU4v9Nu6CZS4VYV6Jv7joRZDb7ogWUtPxB1BHlHz
Zldr/SvrgXzv3PkuGRW+1moG+JXXIFgNCdaVBP3dfOxjwJBElCeSc5cO2j7BUZ
HqgEeBBUKp/UzDkN/dBlh9NEFFAZ3MTD0D4bYEIXwqVer38YwbhU5rPla7n+SlnqYF
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FiScStnZ0p4dS3ZXPaLaAjlX70McoteMqLzTbe4k4e65z1YieJTWZ5uWpJl4og/
DJQZo93J6J2VE+0p26twEtzaymsXq1IKVLECAwEAAaAAMA0GCsQGSlb3DQEBdUA
A4lBAQsed2yY9P/xjNHBrHDxjeh5uFyDskCwv06Kvy8FJT6g/0mcdn9SpPhevao
UPr2j07iMFlfAaDxKc3ygH2Uub44+Ud2YdAxHYWttKnvj43XSoWSnmUDEiUugPAP
C4EmgPEfsxt+nl5fwI5Gvbf3mJ31FJxSiJREcaH8upyXW4vfF8e0o+9gmM+aT/w
OJj+dYepflP+b1jQjLs9NLJkLhBHlQFbIcGQXJKcw5z0hjdsoSUqCMO5z
3gVrJHfJCQTT1DWWLTCeDoPscen7xbDbXnCho+ZLtyMesoCvOEeZLhDYTLw
H5jw6f9GW8QXP+EQncf6ZhtmYLRU

-----END CERTIFICATE REQUEST-----
Certificate:

Data:
Version: 3 (0x2)
Serial Number: 15 (0xf)
Signature Algorithm: sha1WithRSAEncryption
Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
Validity
Not Before: Feb 7 16:06:36 2012 GMT
Not After: Feb 7 16:06:36 2022 GMT
Subject: C=NL, O=PolarSSL, CN=www.example.com
Subject Public Key Info:
Public Key Algorithm: rsaEncryption
Public-Key: (2048 bit)
Modulus:
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hDxCBgTAJBgNVHRMEAjAAMB0GA1udDgqWBBBR95Jx5vIxfUbSej2tax39wq4TDAfB6gvNhSMEGDawgBS0wuSls97uVa51aaVd++vvM9fzA0BnVHREELTAr9g93dcuZXhhbXBsaS5jb22CC2V4YW1wbGUyY92tgtItGFiGx1Lm5ldDAnBGkgqG9w0BdAQUFAAACQgAN402PlQIe+nRxUIyshjLBAhB/pxxBw/5pRc7LWKMzI3GW7z01p58pXHvRmtp7tc00HkuNglo0Y990bK2D8thmD5fomVDiWIEQFKou04WQKtRwScbC4MOtkv7u0QrkNhPmKuPueMkIAzk5uAuZjEvA3hC2kFbaI1EmiWynaq5UD3GjR1S7O+axAxxcuD2wrgKAS1Xyb8D1DijRdIoF+D5sHmsuQAEJC7XlJiZozsF4Jau24DB4xIxbNrzgsB3I43EYx8zDWFxz6gEjZxFvPKKVxASQpdmRcOj/w9Nt7uWAhR7zMRex1/t7Tg6H1gsh32kXqQ+eQ==——END CERTIFICATE——

N=6F440EB85101072B02040ADEC23C2052769FF89E5EAE061AD5FC85650E051DBF25FBA31DC3A3AFCDF
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E=010001

D=0D277AA0DA45E86E93B6FC27EE1435E8EA315B613D4DCEF578BB102E85A452A8E6EB0DE65229DE
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P=D83126F5FDE9AF544C95B2BAAF93BEC1032F4426DC048ACA686ED0813A2779B0D409398D3761786
71813B740B16ADA814D918ABCBDB61F5D5D726A7DA843
Q=83C0E71E39D1ED4E12EC9B54F7EB6ACC5E27B566348B17A9B1B6A6F2ABBDB1E137C0B3E7CE3693D
215A3312C74B5E17713727D0533148C9FEFA511F2A49
DP=87C8C6D2E939134B8D484DF4F000BE1C14488C95B46D12B82D978D0487A08152C20166D293EE15F4
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QP=8C2FAF2C27F8FEE66CF2BF4811DA5745A3328E5B06256C57F8F924EC6E552718095A2F9B45DE5B
7B2F697FB3CC6D72ED6415555CDC2CB193D2296249488
cmake_minimum_required(VERSION 2.6)
project(POLARSSL C)

enable_testing()

if(CMAKE_COMPILER_IS_GNUC)
    set(CMAKE_C_FLAGS "-O2 -Wall -Wextra -W -Wdeclaration-after-statement")
endif()

if(CMAKE_BUILD_TYPE STREQUAL "Coverage")
    set(CMAKE_SHARED_LINKER_FLAGS "-Wrelocatable-symbol")
endif()

option(USE_PKCS11_HELPER_LIBRARY "Build PolarSSL with the pkcs11-helper library." OFF)
option(ENABLE_ZLIB_SUPPORT "Build PolarSSL with zlib library." OFF)

if(LIB_INSTALL_DIR)
else()
set(LIB_INSTALL_DIR lib)
endif()

include_directories(include/)

if(ENABLE_ZLIB_SUPPORT)
find_package(ZLIB)

if(ZLIB_FOUND)
    include_directories(ZLIB_INCLUDE_DIR)
endif(ZLIB_FOUND)
endif(ENABLE_ZLIB_SUPPORT)

add_subdirectory(library)
add_subdirectory(include)

if(CMAKE_COMPILER_IS_GNUCC)
    add_subdirectory(tests)
endif(CMAKE_COMPILER_IS_GNUCC)

add_subdirectory(programs)

ADD_CUSTOM_TARGET(apidoc
    COMMAND doxygen doxygen/polarssl.doxyfile
    WORKING_DIRECTORY ${CMAKE_CURRENT_SOURCE_DIR})

<xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" ToolsVersion="4.0"
    xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
    <ItemGroup Label="ProjectConfigurations">
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            <Platform>Win32</Platform>
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            <Platform>x64</Platform>
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        <ProjectConfiguration Include="Release|x64">
            <Configuration>Release</Configuration>
            <Platform>x64</Platform>
        </ProjectConfiguration>
    </ItemGroup>
</Project>
Diffie-Hellman full exchange #2
dhm_do_dhm:1024:10:93450983094850938450983409623:10:9345098304850938450983409622

Diffie-Hellman full exchange #2
dhm_do_dhm:1024:10:93450983094850938450983409623:282173981279871938739182739712938719287391879381271:10:934509830485093845098340962223981329812792137312973291239127912791271

-----BEGIN CERTIFICATE REQUEST-----
MIICgTCCAwQAwDEMAkGA1UEBhMCTkwxETAPBgNVBAoTQFBvbGFyUlNMMRowGAYDVQQDExFQb2xhclNTTCTBZZIgMTCCASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBAKkCHz1AatVVU4v9Nu6CZS4VYV6Jv7joRZDb7ogWUtPxDQa1HlhJZ
-----END CERTIFICATE REQUEST-----

<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" ToolsVersion="4.0"
xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
<ItemGroup Label="ProjectConfigurations">
    <ProjectConfiguration Include="Debug|Win32">
        <Configuration>Debug</Configuration>
        <Platform>Win32</Platform>
    </ProjectConfiguration>
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        <Platform>x64</Platform>
    </ProjectConfiguration>
    <ProjectConfiguration Include="Release|Win32">
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        <Platform>Win32</Platform>
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    <ProjectConfiguration Include="Release|x64">
        <Configuration>Release</Configuration>
        <Platform>x64</Platform>
    </ProjectConfiguration>
</ItemGroup>
<ItemGroup>
</ItemGroup>
<ItemGroup Label="Globals">
    <ProjectGuid>{F52B9FFC-0E87-4816-BB2D-711CFC1E8955}</ProjectGuid>
    <Keyword>Win32Proj</Keyword>
    <RootNamespace>benchmark</RootNamespace>
</ItemGroup>
</Project>

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-----BEGIN RSA PRIVATE KEY-----
MIICXgIBAAKBgQDMYfnvWtC8ld5bPKae5yXSxqHTt+Zpul6AnnZWfI2TlavrjHBF
UtXR996y7h0L4vV0PKGcxRqMFDkrbeUjr8xIS914/smyf6sh9c8Zk04xEOpK1y
pVBrz+Ks4u0Ohtjmnit0NBGjdxKXveTq+VE7BWU1yQjtQ8mbDOsiLLvh7wIDAQAB
AoGAePTT8mPMgApNJEnJErjkAMTgSdLrCvQ05gDBbxbPE+7tsMr3DDpuxz3HB0
iEg3ZbV3boQwV7bo0cr34W40CMulJ5b5irHRG8JcZunmoiDy6z7S5Vs7085sz
fVzTlVuYyuHy1rM6rSBYKfsMLy4ImUb4wtlXEMHPzdC9L9ECQQD3ZfgGqudMWQ8v
3BIKhsQ4fsR0vzxNIMzOriZzczvBT339Bp1UQ8aU0x8BtHiRwuW1NaPNGYKX6XQ6
ppuWuTJkEA030i493KnFPLRwWypqF/s6ZNIVye+euFN5NF/JeJcVb/GUDRvY9O
pRozRSjN4zB1K2xT7N9MwsPHD6j6K4twJBAJzdHTfT9RzjGnae7SAQQ+CcFYFz
JiY6386B2yUVJLFj+j5RaMwMcKQ7xGnvGm7vxtNJrj/3jqg6oavXUfuzgECQQQP
CEVLhCd/+ZeZoz5MWPTGTRrOCXmoRqNW0FI6GpP0D1qSwh04KG44uf0Oyu5HUGr
JZG+bcj4x5bWZFMkoUrpAkEAYegQzseKFqcbt1pq3pLXJYQBBw6leFXgHk11a7k
+AkexhPYYq/74XFO2TLk2hs7pyGNDQZCvEu7jTNI3uA==
-----END RSA PRIVATE KEY-----

Certificate Request check Server1 SHA1
depends_on:POLARSSL_SHA1
x509_cert_req_check:”data_files/server1.key”:SIG_RSA_SHA1:”data_files/server1.req.sha1”

Certificate Request check Server1 SHA224
depends_on:POLARSSL_SHA2_C
x509_cert_req_check:”server1.key”:SIG_RSA_SHA224:”data_files/server1.req.sha224”

Certificate Request check Server1 SHA256
depends_on:POLARSSL_SHA2_C
x509_cert_req_check:”server1.key”:SIG_RSA_SHA256:”data_files/server1.req.sha256”

Certificate Request check Server1 SHA512
depends_on:POLARSSL_SHA2_C
x509_cert_req_check:”server1.key”:SIG_RSA_SHA512:”data_files/server1.req.sha512”

Certificate Request check Server1 MD4
depends_on:POLARSSL_MD4
x509_cert_req_check:”server1.key”:SIG_RSA_MD4:”data_files/server1.req.md4”

Certificate Request check Server1 MD5
depends_on:POLARSSL_MD5
x509_cert_req_check:”server1.key”:SIG_RSA_MD5:”data_files/server1.req.md5”

GCM NIST Validation (AES-128,128,0,0,128) #0
gcm_decrypt_and_verify:”d785dafea3e966731ef6fc6202262584”:””:”d91a46205ee94058b3b8403997592dd2”:””:12
8:”3b92a17c1b9c3578a68cfefea5a5b6245”:””:0

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GCM NIST Validation (AES-128, 2023.0.0, 0, 0, 128) #1

gcm_decrypt_and_verify:"ae963833b9098de1ababc853ab74d96":"":"4e0ff93beff722c6f7d6ad606a2d24":"":"128"":"e9fcedc176df5e587dc61b2011010c6f1":"":"0"

GCM NIST Validation (AES-128, 2023.0.0, 0.0, 0, 0) #2

gcm_decrypt_and_verify:"c4fb9e3393681da9cee5ec96f87c5c31":"":"845e910bc055d895879f62101d08b4c7":"":"128"":"99f783c497416e4b6e2a5de7c782057":"FAIL":0

GCM NIST Validation (AES-128, 2023.0.0, 0, 0, 120) #0

gcm_decrypt_and_verify:"2a930f2e09becec9191cb76f2ace8d3":"":"340d9af44f6370eff5f34c653033a785a":"":"120"":"0c1e5e9c8e5e5e5f11f1f3503d63":"":"0"

GCM NIST Validation (AES-128, 2023.0, 0, 120) #1

gcm_decrypt_and_verify:"fe7117e02073b1c407b5724e2263a5e":"":"83c23d20d2a9d4b8f92da96587e96b18":"":"120"":"43b2ca795420f35f6eb39f5dfa47a2":"":"0"

GCM NIST Validation (AES-128, 2023.0, 0, 120) #2

gcm_decrypt_and_verify:"b02392fd7f228888e28e1591d1e9a15fb":"":"2726344ba8912e737e195424a1e6679e":"":"120"":"a1b6011ca80553536a2a2cc255d2b6":"":"0"

GCM NIST Validation (AES-128, 2023.0, 0, 112, 0) #0

gcm_decrypt_and_verify:"21895cbaf6167b8b5f8567e88e0853d4":"":"f987ce1005d9b6dd31d2452bf80957753":"":"120"":"952a7e265830d58a6778d68b9450":"":"0"

GCM NIST Validation (AES-128, 2023.0, 0, 112) #1

gcm_decrypt_and_verify:"9bb9742bf47f68caf64963d7c10a97b0":"":"3485696de461c44731905fddbc5c":"":"112"":"e9b6be928aa77b2de28b480ac74c":"":"0"

GCM NIST Validation (AES-128, 2023.0, 0, 112) #2

gcm_decrypt_and_verify:"4e9708e4b37e2e1b5f54f4f5ab45e2a6":"":"1c53a9f2d23919b036d99560619a9939":"":"112"":"6611b50d6fbc9830347f99f5e1768":"":"0"

GCM NIST Validation (AES-128, 2023.0, 0, 104) #0

gcm_decrypt_and_verify:"82fedc79db2500b96eb050a22cea87":"":"e9c50b517ab26c89b23c1f0c4c50162c":"":"104"":"d0c0ce9db60b77b0e31d05e48":"":"0"

GCM NIST Validation (AES-128, 2023.0, 0, 104) #1

gcm_decrypt_and_verify:"1d985666ca5201abb12914311a8bd532":"":"590ae4b46a9023405d075edab7e6849":"":"104"":"a1cd1a27b341f49eda2ca8305":"FAIL":0

GCM NIST Validation (AES-128, 2023.0, 0, 104) #2

gcm_decrypt_and_verify:"3038771820c2e1319f02a74b8a7a0e8":"":"e556d9f07bf69d7e9a642661c80f0c4e92":"":"104"":"4d2f005d6626a8787f231c5e1":"FAIL":0

GCM NIST Validation (AES-128, 2023.0, 0.96) #0

gcm_decrypt_and_verify:"0fb7eeff50de5987d7db508d01930d5a":"":"a2a2617040116c2e27e423662d8278213":"":"96"":"68413e58d7f7bb5f067197ca0":"FAIL":0
GCM NIST Validation (AES-128,128,0,0,96) #1

gcm_decrypt_and_verify:"8cc58b609204215c8ab4908286e56e5c":"":"fb83ea637279332677b5f68081173e99":":96":"a2a9160d82739a558cd419f":"FAIL":0

GCM NIST Validation (AES-128,128,0,0,96) #2

gcm_decrypt_and_verify:"81a5fd184742a478432963f6477e8f92":"":"da297ceb53b11d7c379e0566299b4d5a":":96":"200bee49466fdda2f21f0062":"FAIL":0

GCM NIST Validation (AES-128,128,0,0,64) #0

gcm_decrypt_and_verify:"f604ac66d626959e595cbeb7b4128e096":"":"269d2a49d533c6bb3800871f38e0b39":":64":"468200faa4638e8be":"FAIL":0

GCM NIST Validation (AES-128,128,0,0,64) #1

gcm_decrypt_and_verify:"2e308ba7903e925f768c1d00ff3eb623":":"335acd2aa48a47a37cfe21e491f1b141":":64:"4872bfd5e2ff55f6":":0

GCM NIST Validation (AES-128,128,0,0,64) #2

gcm_decrypt_and_verify:"1304e2a5a3520454a5109df61a67da7a":":"d9e88b452acf4fa1444c3668e9ee72d26":":64":"83af03440200ca95":"FAIL":0

GCM NIST Validation (AES-128,128,0,0,32) #0

gcm_decrypt_and_verify:"ecf1ec2ec9a8f2e9cc799f9b9fdd3b322":":"ddf0b695ae5df2b594fcaaee72b7e41c":":32":"2819aefd":":0

GCM NIST Validation (AES-128,128,0,0,32) #1

gcm_decrypt_and_verify:"9ab5c8ca905b5e50461f4a69841144b":":"96dd3927a96e16123f2ed96b367303f":":32":"6e0553ef":":0

GCM NIST Validation (AES-128,128,0,0,32) #2

gcm_decrypt_and_verify:"b5fc7af605721a9cfe61c1ee6a43e22":":"6b757d4055823d1035d01077666037d6":":32":"e8c09ddd":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,128) #0

gcm_decrypt_and_verify:"03c0b4a6e508a8490db0d086a82c9db":":"ac52f6c1a5030321fa39f87e89f5b5e":":33316ca79d10a79f1d038593e8eef09625089d4e0ffe4b1cf21751554af6666ab3c7fe7885edef94b410456f3ec0e513bb25f1b4895e4820c5972caabb25c84c08566002dadc36f3341c1e86847964a122016d389ac873bca8c335a7a99bce9f1e1b985ae5d488a2d7f78b4bf14e0c2dc715e814f4e24276057cf668172":":756292dd8b4535887edef51679b161812":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,128) #1

gcm_decrypt_and_verify:"f2283d3d15219ea9ad56511c02c8374d":":"5c7eafaed029c3fe3c3835fe758d0e":":8c35dd05c0868eb9bb4d46f081b4dcb8c466c657842dc3e72ba90952e2bebf17fe7184445b402f081000a944516bd26a2127b01d3b7f42679052cde73ee533129a8f8d13957415c5495142157d6ce8a68aa977e56f562fed98e468e42522767656ce50369471060381b752dd5e77c79677a4ecafda39e518e30a789e79b3b07ea21":":128":"a4ddee1ab93c84937c3bbec3ad5237818d":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,128) #2

gcm_decrypt_and_verify:"b2283d3d15219ea9ad56511c02c8374d":":"5c7eafaed029c3fe3c3835fe758d0e":":8c35dd05c0868eb9bb4d46f081b4dcb8c466c657842dc3e72ba90952e2bebf17fe7184445b402f081000a944516bd26a2127b01d3b7f42679052cde73ee533129a8f8d13957415c5495142157d6ce8a68aa977e56f562fed98e468e42522767656ce50369471060381b752dd5e77c79677a4ecafda39e518e30a789e79b3b07ea21":":128":"a4ddee1ab93c84937c3bbec3ad5237818d":"FAIL":0
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GCM NIST Validation (AES-128,102,204,104) #1
gcm_decrypt_and_verify:"8b95323d886d02754f4c2874b42e6e0b":":4f76084acbdeff9999e71dccc9742387d8e":"ebc7588377c886481a8af91c99e29cf17cdec66b5f0a92d238f4a614b350dfe4e9045c6d28ff262624c60679eac15b0c6366d26492bd217e5012279e0af0b2cfcdff51f1e16935968cbb727275fe5bcd44289058497476e4893600ce88b2cefc1b46b043e8b752b91564ed60547f391cd370b1cd7ed1dcccc":104:"c4724ff1d2c527925eb7339ec9a8d":"FAIL":0

GCM NIST Validation (AES-128,102,204,104) #2
gcm_decrypt_and_verify:"30da55559eb11c7ef7e0e9ff9d99e607d":":7799275bf112335f281ee94a870f90a0ab":"e7355d6e15e78d9736f016c8e99db753ed14d4e4adaa1dd7ead702ea5dc337433f8ce2b45afdf2f385f6d55574425571e079ca759b623f5b77ed1618ff212ba8d865a22b86076b8b5c1acafcd2d492fd41607bb7382f26cd7037507088d497b1632d8e01256c734a9b833566bf6ced207177de75458481e0af59a431d7":104:"3c82272301e17e4a0a07a908e":"":0

GCM NIST Validation (AES-128,102,204,96) #1
gcm_decrypt_and_verify:"ed2ac74af896c5190c1e271ca6af02fd2":":e02262ed8da47bad1a1f78b9a797f2f":"8f11353ae476ff923011e6e7363ffcd923101a4c171c07ad372a8430d6559c376075f3f062e318cd649443dBd132e76da5524045020c97e904633b44ec1d89a46b2437ac7e972d30c3e0e571c90f040d8b8a960747ced7f2d414a52328ba4dc3974b4902db456637b612947dae618ff8b9769e9f2af849f49ad8239b99fb":"9b":"db8a7a0d548f5c4d9457c3":"FAIL":0

GCM NIST Validation (AES-128,102,204,96) #2
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GCM NIST Validation (AES-128,102,204,64) #1
gcm_decrypt_and_verify:"89ca3771a0ef3287568b4ac036120198":":7e83d2f8a8f8e55454cf7d1a0bd56e5ff":"1b":"f8fe96283bb2d12c62bd5049265b3ccddf5e0afab2dc4d0daf0ee4b16e92e62e4640c0a8d3d2c3dec8e8d483490609716ec5e4e4c1672fc656ao4e443d22575e8420e94ee15d90ddaf5896f8ce23e4e232a6d4823d4ef9996c34f69e0e6edddfda5f623d8e8ba9d42968b2c54e3c4847271e7590374edf62634":"96":"06b2b62591dc71eb184710":"FAIL":0

GCM NIST Validation (AES-128,102,204,64) #2
gcm_decrypt_and_verify:"a1a2979db96e224942998fe2192934a1":":8672f8e5ca0b7edc66b6c96abb0ad556":"f32041adb8543415cbac4239d45dda5378a167a9e49d9ab5dbd232eb1c5048cc7ce84d3fca84ec7e25f18c34cfdeaa7595392a4b9d69e2f37c1165369c6d06c9d9110def6f564d435e5afe2362930019943ffe078cd9e4fd476782ac77f1c90a8a7c7e4d63995078aa9addec7f798460ff5910861b7c671bc3bbf66b269d272":"f94a917ef6117e":"FAIL":0

GCM NIST Validation (AES-128,102,204,64) #1
gcm_decrypt_and_verify:"a93720c508f4e2a9d01d919bd52b383193a":":8d30f3423230c8f00a5b6b712d426a2af":"cffe4e70f8c1201eefc7c8be30c3b5f72dc7624260ebd26242f8aa68c5b716ab97ed6e5720accc1965da603d556d8214d58551b71f52d4731387679626162cc81ba8dd80108755d8f7bb51bfe0d3a19718d0f949b850e0279b3a69295d1837c6a958a6cc5e6759408089e5b95a199df9e54ddc853":"64":"b82d11c3d575e8d":"":0

GCM NIST Validation (AES-128,102,204,64) #2
GCM NIST Validation (AES-128, 128,0, 1024, 0, 128) #0
gcm_decrypt_and_verify:"08428605ab47423e85a553544d764620":""78cc4fd75788e95d5c38388889e9764e165aa7db74f2c42273f912daae5672db232a872ac652f7cd3af3a5756f8331c11ebb864f7569787db3c46ca0e52a0ba0f15e3c3b7f8444ce50a4bb9b3e15f
fd063232a3f79f333d8f487771ed15226e64b9cf90e666aa26f7497a47d4":""799878692":""799878692"

GCM NIST Validation (AES-128, 128,0, 1024, 0, 128) #1
gcm_decrypt_and_verify:"3d84130578070e036c9e3d5f5b5094737":""38a4e7d9a348e0f8044d4f97dca10ad04ba7188d96e6549hab5053baace67e0aaba5537db11638681d3e3509e0d09e
19123046bc76815c201a947a7a47ed4239e889df4f98c8d034878ed06d5ffcc27cf674247b29b02e9c30287c0821e9f1a5
d4ccbc5a959fae93ed432ca960ebbf5a169ccada95a5fb4c7c968830":""3eb3e3a2":""3eb3e3a2"

GCM NIST Validation (AES-128, 128,0, 1024, 0, 128) #2
gcm_decrypt_and_verify:"0dd5b8bc3f92216e81e3a23f3a2d517":"87c4f47df7588e95d5cc83b3a5d564d2249d178ab23224049975d42885ed9ea3f3710768a39a7574b30c085442268e7b08e0e8f9e24109d4554ce21d56ae44437d41491a4438272738968c8d371aa7787bf56608c549ad8d687da71380e9657dc33037979f0be10de591f1e470dfc59eb02511e0f
bf3cfcb479a862ba3844a25aaa":"d8e750bb434e1a1694de97c4fde4855b":""18a1d13973ba22a751833d73d394b3b1":"77949b29f0858b3abb715a586003811233056d3296e093370f7777dadd30639d9d9cb9754d3857cf2758091ba661f854ef05826ae0e1342382106f0d51db541c7d4f7c65dc7b5f348a1949daee9369ebb1630c01cccbb07b84e9527da2a098989d748452906f0b790d0ed946a895033a45bd9ae673518b32606748eb65"

GCM NIST Validation (AES-128, 128,0, 120, 0, 128) #0
gcm_decrypt_and_verify:"43bf18227c5c74288 deceive0f38011cedc":"f58d630f10cfa61d6444d4f5650bab629e18e8af1
673e64417f97b9e62296aa7011ebcf3f74db5cebf09ad3f41643d4437213204a68397de59ba85b1970aed2b5bb5e1a9337e3a566f09c0b9818f6e373f5db5debecc911e7a1848ab3de3e355515c774e027db7d1c07d047d3b8825f
f94222dbaf6f9ab579e7e808e12246e7db81da36d10f3eb167d":""128:82d3b2f7da218d1d4141a5b37cb065":"FAIL"
GCM NIST Validation (AES-128,128,204,0,120) #1
gcm_decrypt_and_verify:"fe6b8553002c6939d69796b4b8d370798"; "786f4801b16de7a4931ab143b269c1de86e049d38068492e32ad690af4c86839d89a0ddbe" c30e8e9e9039e423a2341e11": "595b17d0d76b83780235f5e0c92bd21f"; "8879de07815a888778b0623de9be411": "b15d7c4d4a4dcb0783rf0592e5e03c4d785172a5f9e454b5bo1ae573799ba9b3f2e468b188e3ca4d0785c6086df1d8676b0cc07a836ec2d09b845163df15a3a23b67ec70cd86606d39e3536e44cc4e83992866e460a0638c10e5a
a567c0be8e8080808b71be51381e051336e0b16f63f6d2d7640a575e0752553b": "0"

GCM NIST Validation (AES-128,128,204,0,120) #2
gcm_decrypt_and_verify:"14898c56009b451972e9c179935b4f": "e7a6afe7222273238b97d551f95d3e77e9b75b24c547b8e6aaf4574d09033b16fe6443839d8604ee497020e1ac3dbd86a819b17f2de0f240e21219792792a5b8ed2852700e1e599b9ece8d2282e7ccc1d97b78f69a73793616b82b7d8ad284ac665e62e346a9e2948876995b2d563a2667b22a86a882e": "0862f8f78228998711a877d231d44eb": "36938974301ae733760f83439437c4": "3ef65989762f743a0ab4465b697775fd1d2cfc9a5e74e7a60f0eccdc67229820c66e74b7e41610d12ff2e9aa3be11bc101b2514aed7f452007e7b4e2d6b228840d3ac026176f11f7c5ce4f040af9e5c4500a632a0415b42d0c3f0c2b16a8667a888b3f749793e3038a919d666d66a3052c247224121129a0802": "0"

GCM NIST Validation (AES-128,128,204,0,120,0) #1
gcm_decrypt_and_verify:"fe52534d6097193b081ebc1222ca5f8": "b57a0bd7719ae9577a1a7ed4ad2bec66f8a1d6d8956db1cb5fd2c7bdc403d501801b26733b5e08c107e3c8d0c6c618bdc208de7a92d7ebe1663205281ca06f649c93c36fbbe7080f00e5d6b070e4de056a8b609dc43e16c8f97613043072998745d1fc4e9a3aeae3bca4b1141d34a3b3e11226ad801aa0e2f71e93d7f7b8679a73793616b82b7d8ad284ac665e62e346a9e2948876995b2d563a2667b22a86a882e": "0862f8f78228998711a877d231d44eb": "36938974301ae733760f83439437c4": "3f565989762f743a0ab4465b697775fd1d2cfc9a5e74e7a60f0eccdc67229820c66e74b7e41610d12ff2e9aa3be11bc101b2514ae7f452007e7b4e2d6b228840d3ac026176f11f7c5ce4f040af9e5c4500a632a0415b42d0c3f0c2b16a8667a888b3f749793e3038a919d666d66a3052c247224121129a0802": "0"

GCM NIST Validation (AES-128,128,204,0,120,0,120) #2
gcm_decrypt_and_verify:"c30e8e9e9039e423a2341e11": "595b17d0d76b83780235f5e0c92bd21f"; "8879de07815a888778b0623de9be411": "b15d7c4d4a4dcb0783rf0592e5e03c4d785172a5f9e454b5bo1ae573799ba9b3f2e468b188e3ca4d0785c6086df1d8676b0cc07a836ec2d09b845163df15a3a23b67ec70cd86606d39e3536e44cc4e83992866e460a0638c10e5a
a567c0be8e8080808b71be51381e051336e0b16f63f6d2d7640a575e0752553b": "0"
GCM NIST Validation (AES-128,128,1024,0,64) #0
gcm_decrypt_and_verify:"0b1f9b0d2006cc5505b7b991d3d382005b0d":"5d3a297497a95666a7c7445092098f14e9950aceb9e9a0a150f05e0240e01c1e7505d0d83937542b0b182880e9a28ad918a09b2edf8493540b74ce73d7294f2eb6ed18e8ba50ddde9567426c83330f3df37d829f2cde0b10ce73a4e26ab1be0f37ece7e0190b95188e9a752feef6:"ca28fa6b64bb3b32ef7d211f1ce8be759":"":"c87aacc7ad0e85dbb103c0773":"FAIL":0

GCM NIST Validation (AES-128,128,1024,0,64) #1
gcm_decrypt_and_verify:"8b2ecf1a92aa0af20b0fb2a998555b5e":"5d3a297497a95666a7c7445092098f14e9950aceb9e9a0a150f05e0240e01c1e7505d0d83937542b0b182880e9a28ad918a09b2edf8493540b74ce73d7294f2eb6ed18e8ba50ddde9567426c83330f3df37d829f2cde0b10ce73a4e26ab1be0f37ece7e0190b95188e9a752feef6:"ca28fa6b64bb3b32ef7d211f1ce8be759":"":"c87aacc7ad0e85dbb103c0773":"FAIL":0

GCM NIST Validation (AES-128,128,1024,0,64) #2
gcm_decrypt_and_verify:"8b2ecf1a92aa0af20b0fb2a998555b5e":"5d3a297497a95666a7c7445092098f14e9950aceb9e9a0a150f05e0240e01c1e7505d0d83937542b0b182880e9a28ad918a09b2edf8493540b74ce73d7294f2eb6ed18e8ba50ddde9567426c83330f3df37d829f2cde0b10ce73a4e26ab1be0f37ece7e0190b95188e9a752feef6:"ca28fa6b64bb3b32ef7d211f1ce8be759":"":"c87aacc7ad0e85dbb103c0773":"FAIL":0
GCM NIST Validation (AES-128,128,1024,1024,64) #0
gcm_decrypt_and_verify:"78826a5215a1d5e1b39cad5a06861f8f:0fe2c798d7015d2e3f8725648d95729e45d357dc08c96f33df5a6f3d6f264590f5663e4970973a2958c495d5ca6737182ac1f19ed28af6b18ad772c3019d8db5e3560ac546b6a105e7ed6d59b2337752760d1e21b96a956526035144774a563f783a2013626a89b151f31407b16598b8cb3eaaefalc1ae26:feb9d47f01e221232b5ef5edf19e1ff5:ca9411b368d8295210d7a04da0535d287f2f7d97fe1bf936d9f80654f37f6fa11495da2eba13a1002231c86411d4509bcb7178e20242ee9e131b1df1ef786e9cf1fc2d43293c8512815e49b317e4f8a200e4ac282fcd92fcd187d1a14a25fc30ae4df4bc5f1da9308d4ec4b1785df70aa9207a4da194be433d4c435.64:a724bb295a02838:FAIL:0

GCM NIST Validation (AES-128,128,1024,1024,64) #1
gcm_decrypt_and_verify:"d450f52525251121606e56687952b2f1f:479bf4211bd8af7c6154ac05754a1787c5db54d1e1f26c1131d1968c1ba92d8e175cb525d7f2038732322eb8a0820b8476e9b08a7c1a4e44471b2d2237320cb8f8fc6d9b955bc8aff5f2ec3651b04ee19c6ad8949a193f516f803954a04db1dcedf7eb2047779722902060e002bcf25a11110e85f5ee9c7ec5a31747:1ef7f9b0b020fc777d7fcd90be583580ae:a3bca9f25a6006eb18f993ddc99891e141e2065264df2256251957f1489505af077c345688d93b5e6642913646e93ef50ee1dbd530106e1f81121428a01c172ed99038c979820abd5f7c48190b0c979782b349e91059da4538acfd737fe2421f1f7a248f60abaf2b66cd4554767f99030f1a495d56a5ae:64:6446398a4ff73ed2:FAIL:0

GCM NIST Validation (AES-128,128,1024,1024,32) #0
gcm_decrypt_and_verify:"6be4ef6290f38194c747f7b66418922d:be5a948a771a8d12afada7f4d702f06a475f64830330365bfeb7d184844edef0e8f4c34b6eb05b1d163817ba15166c8b79916ed81f884ada73b0058e2b38aba515bbbe4622f42118de1d41bca2fe34f20a6a5999f07886ecb2660d9c3295318c07f3a1c17e82424093590c88b33735cf26888889b6a20f4ee4bf304e7024:2077b8e9a26e37f038e760448a31981:4022d4041545a72d2ef575333bd32757595202b2f3a37d466ecce40421f1eb2588f939edc990e805f4827338669888e97f739050501eb1b136b95e306df70d9b8e15edc0a013a25a128ab55c3f369ed7036c735c3b285d26002d2ed21074b566e252ea3ec8a9ce10882375dc3f1d9676e301dcb179eaa991120b796cc35648:64:dc77c1d7e092048:FAIL:0

GCM NIST Validation (AES-128,128,1024,1024,32) #1
gcm_decrypt_and_verify:"c50e37244931e8dec812b3d651c83b2a:6b67e20a320f4ec0e1485c62a4ad5ad99a3c197a8189a5e4d1deff93d3eff09a9323532853ca1a2a1c2e64d1afebdfc1d8a46921a60175038063b9128d738198f976851d88a1991a32e971436668ad00838d98da1c4f2be0e6e2d96d417d07f7ad2e2997982e5a10e74e60c24a1e8a2e66f6b2b192f9290a7e0a593:"fb7b949cb426271ab656343f87682c:ec:e5d5227725a1a0350bff2a97a9e854b5a12b994a43a340b3721ace344dfaff68ff5553a2e6edd12419e68b61f9e96d0a3c29796251ae4eb924287ed5531a09df84b789e393de20272721756a7c6ec881154434ee1a761348e3ea60819b52cd880f1e28ae5214ae0090a3855dbd74f873898e8af ebd464330f683df8f1a:32:3d8fc6f:FAIL:0

GCM NIST Validation (AES-128,128,1024,1024,32) #2
gcm_decrypt_and_verify:"c5e0e37244931e8dec812b3d651c83b2a:6b9af079f62d277f4735546cf809030f6ded0c7f6bd469ef2f0e3f32aa0225b57fbc07c36017bbce1608a1811fa429278160a076438648485b4e035d57553dc1a131e32aa0f1f191d663b10a14f817427ed7b7baca54df7dfbb2422cd776d497700d4730641459431eb663359b65363de2924c2d45d40a7b968c05f4869:6ec0b17a24a46883c36457d1b5215c1:51f6dc25f6542ae16ece2de65e0404de4375335a5 ba770dca0f04175950e87a2d4c38f4bc6eaaac436835492929680066f959e74de4736ab92483d67b0aaa6e9492561ad4b5a78b673d562e960edc3b98e2e01a18e6e9f22896f848d8dfc6ba2e2c6006c687aa27772820a1e887b5d0f9e
GCM NIST Validation (AES-128,128,0,0,104) #0
gcm_decrypt_and_verify:"ee61b5bf5060fcc637dc833926898508":"";"b2df21f9f4a4883044d29f087f9b85";"":104:"9ab1d66666d4dea3cb5982238";"":0

GCM NIST Validation (AES-128,128,0,0,104) #1
gcm_decrypt_and_verify:"01cc56ca7e64db7fe66236a5c49493";"";"8ea5b63004189792cc040ef18b37e550";"":104:"d685ae54aa192a1bed17766e";"FAIL":0

GCM NIST Validation (AES-128,128,0,0,104) #2
gcm_decrypt_and_verify:"134dd72ac8e28ab467202f42284a303";"";"c6368e4c0ba0e90fa7488a9997a4c7";"":104:"4ad9cd19ff7fd77e273efced";"":0

GCM NIST Validation (AES-128,128,0,0,96) #0
gcm_decrypt_and_verify:"180c04b2bde6901edcda66085f73eccd9";"";"9193b206beade4cb036f01a9db187cb8";"":96:"530f5e9c0d879ccfe3a7b360";"":0

GCM NIST Validation (AES-128,128,0,0,96) #1
gcm_decrypt_and_verify:"aaaac85742a55ffa07e98106d6d6b1004";"";"630cd8ab849253c4da95ac80324ecc28";"":96:"37911820c810e3700c3a9321";"FAIL":0

GCM NIST Validation (AES-128,128,0,0,96) #2
gcm_decrypt_and_verify:"ab663c4f8f2fcd7d6ebf6e26169b4e";"";"86e6100669929e329a1d258cd3552dc9";"":96:"958d6141f7bf2b2dc7d851a6";"FAIL":0

GCM NIST Validation (AES-128,128,0,0,64) #0
gcm_decrypt_and_verify:"0dd756d49fd25380c4026ea03cacf2da";"";"6a6f7e39b0d730ea1670e13d16c12c28";"":64:"872ef05a28da5ea1";"":0

GCM NIST Validation (AES-128,128,0,0,64) #1
gcm_decrypt_and_verify:"bd8a834b288bdc7578b6c6ab36f5d068";"";"aa77de0af5fa4dd1ed2ada5cb94813a0";"":64:"c5e094e83755f2b6";"":0

GCM NIST Validation (AES-128,128,0,0,64) #2
gcm_decrypt_and_verify:"020d280dbd06939bb5e6edc6f6d39c6";"";"099ea6f0e57598452719df63b6fe5a0";"":64:"05d6c56ba601e85b";"FAIL":0

GCM NIST Validation (AES-128,128,0,0,32) #0
gcm_decrypt_and_verify:"e47f41a27a2722df293c1431badc0f90";"";"227c036fca03171a89080b69fa0c250d";"":32:"86c22189";"FAIL":0

GCM NIST Validation (AES-128,128,0,0,32) #1
gcm_decrypt_and_verify:"9d3e112114b94e26e93d3855d4be26bd";"";"99b98525160c4bb2029da5553ff82b59";"":32:"33bee715";"FAIL":0

GCM NIST Validation (AES-128,128,0,0,32) #2
gcm_decrypt_and_verify:"5b4b768588125349fbb66004a30d5d4";"";"b4ae363ed529d8b927c051ce21a2d9d";"":3
GCM NIST Validation (AES-128,0,1024,128) #1

gcm_decrypt_and_verify:"dachadf819eb16a63f6f091d13ed0f44":";";"b9ebece724b0dcb0989ac2d8e7ff8aaec":";";"7dc6e2189da896f3057e352e058f1db4b988c2f1c70615887719f63b78b0840f15d5f6e4b0901a028801034d3e68f6527
d1f7e4a43ac3df3578ce07c26b5288757f10ff8b66e65c11b4689c346a098e132be8bfa253362cb8689297e3c2b8568881fa9
76a7300fabb767752705e7f9d02a6c86956a4509ea812d7c413a95":112;"8988eaca83cebf1b8eefac346f04;":"FAIL":0

GCM NIST Validation (AES-128,0,1024,128) #2

gcm_decrypt_and_verify:"969244c4f7444f3fbf193b2818e8e96dc":";";"b9g2b84a51a1ac87f866eb87f8c05ac29;":1414a07e86f8861d1lf6ff431e1f44f2b1c95e19509587747c73e13007d21a5e7b88bc17b7e920363a3974eae6860813dec946551
99db703ed337450702d8a16a89778631b8e21c77811e03acc23598a0a16087a7bf42a4e258145be08c9f0aeacf2bbf5f6
d26bea3ad11e1a956a63b080f3d22bf35592b47047c464b08b06df78":112;"a291c75273850f37f62e60f0d9a1e0":0

GCM NIST Validation (AES-128,0,1024,104) #0

gcm_decrypt_and_verify:"525a8eb90184344802969439c590a5290":;";"14117f9f0501316e646541c417af0f0c0d;":be440db66df3f81b0e467605a7b2805ec1df5e71e1b1b04dbd4e59125f1ba1912ba08ed2f7d2f16833b2b7ed7f8963c48c80c2
5178b3b192622b85bb829f5377e0b368b500d63db44254172d4a4500eb5b4d7486b02e5d11d90539455087ce1e5b9
9ea743555fc06e9b060f25a9840d3f8e623fff130abc48be2d8d116b8366":104;"038ce7e95f7906ca5ce73f9551":0

GCM NIST Validation (AES-128,0,1024,104) #1

gcm_decrypt_and_verify:"51644e025659d9e983f58e1565168e12":;";"614837c743d0974e9cca497f1d49a2a0d501927632afc1f6ec275010cd2
5a0ebe630cd2b7c92769efa8e2226860b047934a261937211b401f5953bf6164729111474a=7613d958e616326e6f7
c1e097e8fb87a878753d785d3e3403a102232786079c9b6e00182e41e9":104;"773e0bca27f938685bca4801":0

GCM NIST Validation (AES-128,0,1024,104) #2

gcm_decrypt_and_verify:"0856e6ca7303102db4b87d6ea5025b2a":;";"5f20ece93c5e08a71f0e8a20f9d2b2d3;":5d840e327688bd1e73ec426b31184e8e3549b1f4b5459c842922016e4f8856e19497ce2a3b3f1a1739094f1924a128ce83154a9f41e93
9421fe3c6b3f75bf2355bb0d074ceee1e56eb70e26eb53f2ebeb58d44fda06babbb557865e7a976b6c11b7e3137571715ce
51e84b5987d49013831d78bd497c449cede7aca2b5e75ab97fd6e6ce81":104;"873f03c7f0525a44d76f8155":0

GCM NIST Validation (AES-128,0,1024,96) #0

gcm_decrypt_and_verify:"dfb54db96383f911bf5bf4af1218ef9a":;";"7e849e24983f63f1194b396bb2d55f0":;"d3f6b89c5818810dd104693f3036a10b7217844426798a19497ce2ab31f3a17290492b192a12e86ace5b5b1ee28d6678b
b72a335fde350766d79daef6f549871l1d4460b42c319f5dd47be43d7431d18ca88b5d9a7f51f408a8e622a2f9287
d28c0349f1b27757fd77343f559a8c0d030258c166d96f759b9d957":0;"dada7fc7fed5864628546e6":0"FAIL":0

GCM NIST Validation (AES-128,0,1024,96) #1

gcm_decrypt_and_verify:"389ec888474e9403ef5d6e22ffec439":;"e5f77974ec6fae9f9ce3e8499b531d6":"7ea7f7f4763a2d08e6199258b62b29179564ce43eaf2dceaf5076aae6785feccbe4138a5160f8ff87ea3aa31ce2d7784a8130
8d458fda28f5017513e1454f60be20dae68736a4d48b1f9deadb517df63140acb3299fbfe982f3a1862ce9e998f0aff
1d3ae60b05b5b66289f5co5f0a3efbdf9d239351e3954be0257":96;"9272690ad261306e51f2beb7":0"FAIL":0

GCM NIST Validation (AES-128,0,1024,96) #2
gcm_decrypt_and_verify:"e55abbb2f36c822ba2f0a30a0c307c3b84":;"d86f7177e8ec90f9e9eedf10175d5012":"777a99d9091de65362c10712435541722b08b1f0303e6ff6a387a8666161ab354d6e0ac43c8a24e8623eb32f939a1b136
4add6be0dfdd5fdd32304c0975b6b4a65fba51355be2de8a0ccc1eb9f151e6add59c77a1e2d4d263839e4686f198a936dd6
03044a3fb53d63ef8b50957f5a2913c8a2ec1b7d9dce5728d556c78e1c":96;"6502520543ed8c9b3fcede":0
GCM NIST Validation (AES-128,128,0,1024,64) #0
gcm_decrypt_and_verify:"586114f3b1dc087e1b2739b28c592df":"ae5a38ddd455505284434a4bcfe81ef2":"531f8c285e532d961f49b2d210a5523cd91ba9a69a3a3fb26dbd940a49f6253862405b1e825adaed7e9b0445c980228b8342c8f8ea20301618483f8ab04b6ebeccd7f7cf57878bf544a5b7f8aaf986f050ac30126ff8afaca8a683686666b64436416812729bf7de5c03bb2f7e6a46a6854047fbc959694417af0ea9a6d7290c41":"467a815610faeab2":"0"

GCM NIST Validation (AES-128,128,0,1024,64) #1
gcm_decrypt_and_verify:"cb66754e6b14f12a4cb44e4fda6e4a69db3828d18139d":"5d846eb7b0e2d2d24d76a7847df6b14e12cf3a4b69d5b07":"5d7d369a9b0e2d2d24d76a7847df6b14e12cf3a4b69d5b07":"5b3b5c30ef95cb69dc9b647a3f284ae":"FAIL":"0"

GCM NIST Validation (AES-128,128,0,1024,64) #2
gcm_decrypt_and_verify:"96ce3a9f5a91eefdf91d616ff102dcd":"579d66336ec6687af24ef874899b58e":"3f3f30083148ed391b6a10aad623a82fe9209e5bafa744821f1506d597bf5c7af977235d88ee928cf2160346d0de33a5bd1fb67b7d71677d4db240008d4607eb7e31b599f6d1d06cfe89754579ed66e50de86f596a38c7e0747b7a5f067d0100144c903c2766323b6a929a7d7d8ae7d254d604cc1176f980e1a1d8c82f":"55a0f61032e048f3":"FAIL":"0"

GCM NIST Validation (AES-128,128,0,1024,32) #0
gcm_decrypt_and_verify:"24ec16ec8c971fc2bfe40a2b6ed9e29d":"e9db62a242f1664a6c4cb6b0b2baf92":"3579f6c0cb3d2a50dc4548855c75052d36b6a8df6c0f4ac1b2babe288ed7306119e71982dd484205e8ab9186d765477253df1b5192d3693dbf601c60636131355f4f426895a7e5307f1675d2cb21de66e5ae3761b94deef7537b98532486499f6ab6e230a100672098c958912b604a6d3e397988c70be3eaaaf87f":"FAIL":"0"

GCM NIST Validation (AES-128,128,0,1024,32) #1
gcm_decrypt_and_verify:"d3c3ec993f6740a019e61e1c3cc29955c":"af900ac348082ff32d2e0ab8860709516":"2ddd08c99661075f704aa791af24a485bfe45a8023af7a9f29765b9500b75494dd64874ae9950dc92b70b156929d4bfe412216737bd83590ce17ae4c134c6ada13893cb37a0a38076299337568cb07794ae7846741673dd5c0921cd50de4b548c1589e1423cd3bad42161a6adaed3f3c65c722d9ace69966":"FAIL":"0"

GCM NIST Validation (AES-128,128,0,1024,32) #2
gcm_decrypt_and_verify:"51e5b3d45ee8bb207eb7bd73075010ff21":"884642a4194fde858556e6be5b65df7":"e968947fc0e491363097f6b16c3935e4df3fe480a23af7a9f29765b9500b75494dd64874ae9950dc92b70b1564f5396ca65004b0806cb7c6da751fb6afbeee3443e3cf9eb0e3df6722e0d132044100c5ca508af657b2bf166b903ede2176d1ccab9a40fc513768bd1f552692626ce35078e2e0e12f5d930647":"FAIL":"0"

GCM NIST Validation (AES-128,128,0,1024,64)
gcm_decrypt_and_verify:"3997050377ebfbb800cc438d973661688":"b02f0dd373e42c65e81db2dd76a432e0b2bf6e630c8a4af4d4af85f1b3709b175de9a19b3245ae480a23af7a9f29765b9500b75494dd64874ae9950dc92b70b156":"FAIL":"0"

GCM NIST Validation (AES-128,128,0,1024,64)
gcm_decrypt_and_verify:"e58583f64799d9c9f1b4fdd6ee6e59":"5649a9700cb1f895e4f4fa6426f73b4956896a15e6127e7560d74e3dfb890dd2ee5b7a6a3884f4a613d91d13921e39f0967d7132dbafcd146dd8f717147ed1964c2db3e12f4133d3d6b3b0f30ff37b1d2147493ce885068d9b5be8ae24930aaa0af73e789e4150e75ddc2bde2700db02e
GCM NIST Validation (AES-128,128,1024,0,104) #0
gcm_decrypt_and_verify:"3b936e09a6477f3bd52030a29df5001d":65cf11d1afad19b34f282f98f1b98704ef1c7be822b472f4745be8a1018778a10ed72bf4544d0ab91f0f9d3ec306ba184882557433d0db93e03ccfeb53530bf9d9e9f9e154aa1e2a2e2a7ae08c9ead1eabef7a8eea5a311585b0bca215e79":"7ec6f47ec56daa5b52bbdaa6ad2bed6a":"9037050c53effbc7844aa10cb22":"FAIL":0
GCM NIST Validation (AES-128,128,1024,0,96) #0
gcm_decrypt_and_verify:"3b936e09a6477f3bd52030a29df5001d":65cf11d1afad19b34f282f98f1b98704ef1c7be822b472f4745be8a1018778a10ed72bf4544d0ab91f0f9d3ec306ba184882557433d0db93e03ccfeb53530bf9d9e9f9e154aa1e2a2e2a7ae08c9ead1eabef7a8eea5a311585b0bca215e79":"7ec6f47ec56daa5b52bbdaa6ad2bed6a":"9037050c53effbc7844aa10cb22":"FAIL":0
GCM NIST Validation (AES-128, 1024, 1024, 32) #0
gcm_decrypt_and_verify:"db68a96e216b0dd931b1ad4f9250c5f5c6f1204d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d4804d4d48
Test case base64_encode #1
base64_encode:":"":1000:0

Test case base64_encode #2
base64_encode:":"":1000:0

Test case base64_encode #3
base64_encode:":"":1000:0

Test case base64_encode #4
base64_encode:":"":1000:0

Test case base64_encode #5
base64_encode:":"":1000:0

Test case base64_encode #6
base64_encode:":"":1000:0

Test case base64_encode #7
base64_encode:":"":1000:0

Test case base64_decode #1
base64_decode:":"":0

Test case base64_decode #2
base64_decode:":"":0

Test case base64_decode #3
base64_decode:":"":0

Test case base64_decode #4
base64_decode:":"":0

Test case base64_decode #5
base64_decode:":"":0

Test case base64_decode #6
base64_decode:":"":0

Test case base64_decode #7
base64_decode:":"":0

Base64 encode (buffer size just right)
base64_encode:":"":9:0
Base64 encode (buffer size too small)
base64_encode:":"foobar":"":"POLARSSL_ERR_BASE64_BUFFER_TOO_SMALL

Base64 decode (Illegal character)
base64_decode:":"zm#":"":"POLARSSL_ERR_BASE64_INVALID_CHARACTER

Base64 decode (Too much equal signs)
base64_decode:":"zm===":"":"POLARSSL_ERR_BASE64_INVALID_CHARACTER

Base64 decode (Invalid char after equal signs)
base64_decode:":"zm=masd":"":"POLARSSL_ERR_BASE64_INVALID_CHARACTER

Base64 Selftest
depends_on:POLARSSL_SELF_TEST
base64_selftest:
-----BEGIN PUBLIC KEY-----
MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAqQIfPUBq1VVTi/027oJlLhVhXom/uOhFkNvuiBZS0/FDUeWEllkh2v9K+BG+XO+3c+S4ZFB7Wagb4keUWA0INq1UFd185fAker4KwvwzwaPsFRkeqDMIR8EFQq9TM00390GH00QUU3BnxMPQPHtgSVFCrFTjxB+FTms+Vrf5KepgVb5xOXhUbUjktmUIAbVCSWldQfphqPPwKZvq1LLGTriZvc/kFe66abFtpzAK6FCwWJJsK3M3Q91Jnc/EitoCP9fvQxyi1wyokLBNSupkwbp70VvJliNZNzamXiiD8MIbmj3eXonZUT7Snbq3AS3FrKaxerUoJU
sQIDAQAB
-----END PUBLIC KEY-----

GCM NIST Validation (AES-256,128,0,0,128) #0
gcm_decrypt_and_verify:":"2c186654406b2b92c9639a7189d4ab5ab0b9bb87c43005027f3fa832fd3507b1":"":"3a0324d63a70400490c92e7064a3ba97":"":":"4c61cd2e28a13d78a4e87ea73744d01a":""FAIL":0

GCM NIST Validation (AES-256,128,0,0,128) #1
gcm_decrypt_and_verify:":"747d01d82d7382b4263e7cbf25bd198a8a92faaab8fd7367584c7e2fa506e9c5f":"":":7156358b203a44ef173706fdce81900f8":"":":9687fb231c4742a746bf78c62b8ac53":"":":0

GCM NIST Validation (AES-256,128,0,0,128) #2
gcm_decrypt_and_verify:":"1cbe302161367e7aef2236a7b46c0625176d9a08182fa806a63d8b143aa768b":"":":4f6eacf582c4e26cec71ee7f756fb7a88":"":":d5bd8f7cc896a9f7b07227087d74646c7":"":":0

GCM NIST Validation (AES-256,128,0,0,120) #0
gcm_decrypt_and_verify:":"f31194c83bb8da9799a1eabb3337ceb3d38a663790da74380df8f9412ab8b8777":"":":404ef d26b6656c97ea75437892cf676b6":"":":e491075851eeec28c723159cc1b2c76":"":":0

GCM NIST Validation (AES-256,128,0,0,120) #1
gcm_decrypt_and_verify:":"daced52ae4b5f5b516d58ae4cc3da8f19c0b6f7619ca21979313ad9d3e83c1":"":":4037eadb11249884b6b38b5525b2a2df4":"":":360c6e4f1ebd9cd4a4e649712d2930":"":":0

GCM NIST Validation (AES-256,128,0,0,120) #2
gcm_decrypt_and_verify:":"3ad81e34389406a965c60edb3214663ac4a6bd5cfdd154ae8d9dc86daae93def6":"":":ceebbce06a88852d3bb2978d6e2b35995a":"":":bd7ca9f6fbd1099cde87c0fd7cc887":"":":0
GCM NIST Validation (AES-256,128,0,0,112) #0
gcm_decrypt_and_verify:"4c152ba3aefa5b2a08b0b4d9bf3f16fc208bb0b4c4aeca9411de262d2976bad":"";"008d040fb7d342464209f330cf56722c";"112:"c87107585751e666bedae2b1b7e8";"FAIL";0

GCM NIST Validation (AES-256,128,0,0,112) #1
gcm_decrypt_and_verify:"9aed4ae6b1d857fd6b5eacc6db38440613dce49f24aa31fba1f300b2585723f1";"947c5f0432723f2d7b560eca90842df1";"112:"7d331fedceaf0fd1e9e6a84385467";"FAIL";0

GCM NIST Validation (AES-256,128,0,0,112) #2
gcm_decrypt_and_verify:"cc80bca301676ef5f34dd076388a5130e985f9e06df4b4bf8490ff9f20aeae73";"51f63946708337775111d4f7d16592";"112:"0d31f29e15f60ae3bee1ad7ea65";"FAIL";0

GCM NIST Validation (AES-256,128,0,0,104) #0
gcm_decrypt_and_verify:"db7a40213b5b4b07e99000c48f599403b0579bcbbe13f6c44dfff0900629f52686";"aea6f8690f865bca9f777a5ff843d2365";"104:"7f2280776d6cd68023e85036c";"FAIL";0

GCM NIST Validation (AES-256,128,0,0,104) #1
gcm_decrypt_and_verify:"299b874e8a88b7aaf769f81f49888a41e2708ae928e69a5ba7b8938e66b2db5ecb";"2aa04d85d2c0d6f5294cb71cd89ac1";"104:"ea01723a22838ed65ecb80b1c";"FAIL";0

GCM NIST Validation (AES-256,128,0,0,96) #0
gcm_decrypt_and_verify:"b98e1bf76828b6b5a8100544997f1dc8b11be546d31d6616cd753c815030c32";"929b06eb30d69b49a7f52392d7d3f11";"96:"33940d330f7c019a57b74f2d";"FAIL";0

GCM NIST Validation (AES-256,128,0,0,96) #1
gcm_decrypt_and_verify:"09cee6f4a761a70fe16772caba462b058a69477c915956265f1bd637c816f";"e34b19381f05693f7606ce043626664d";"96:"2adc2e45947baf7faa5c464a";"FAIL";0

GCM NIST Validation (AES-256,128,0,0,96) #2
gcm_decrypt_and_verify:"654cf46598e5ad3e243472a459bced80f1e026a65429325dbd56e73fccc5895d1e";"a56f27709e670b85e5917d5c1d5b0c2e";"96:"177b9a5e6d9731419dd33c5e";"FAIL";0

GCM NIST Validation (AES-256,128,0,0,64) #0
gcm_decrypt_and_verify:"84bca1b2768b9202bf194ff2d5e5a0a5f1fd88b725f2bab8a3fcccdb64a4ea70";"e45b2785bd6f5ec6c66b6df6b3623c";"64:"fe82300adfd8ce17";"FAIL";0

GCM NIST Validation (AES-256,128,0,0,64) #1
gcm_decrypt_and_verify:"c8ae011795c9a60ad7660a31fe354fa67e9c2724d7a126436291680cd95c007";"1bd9ea6186450f9c253ccfed2812b1c";"64:"35214b4c510430e3";"FAIL";0

GCM NIST Validation (AES-256,128,0,0,64) #2
gcm_decrypt_and_verify:"df2f0ba8a3849f497d12bda44e12ce30a6957f3f9ebcd5e9b134171326ca6d3";"72cb9608b67a489a382a677bf45fb";"64:"e2ef5d9cc5791c01";"FAIL";0
GCM NIST Validation (AES-256,128,0,0,32) #0
gcm_decrypt_and_verify:"78e8a8ad1ecd17446cf9cd9c56facfd4e10faf5762da0fd0da177f6a9b9c3a71":"":"f169ce6f3ccc58f6434ae2b8ad1a63a1":"":"0fe57572":"

GCM NIST Validation (AES-256,128,0,0,32) #1
gcm_decrypt_and_verify:"02ca6d8a862e25dbd9d68e4404abc107e700135df4157cfb135ce98eea33151ce":"":"7b722fd4d3c2f20832812f9baf2d6791":"":"72deaf6cc":"FAIL":0

GCM NIST Validation (AES-256,128,0,0,32) #2
gcm_decrypt_and_verify:"9a2b709dbccc3a4bfb3e3b3a54f1b80f838b7e985b57df52f07ca7cd26ab1e4ce":"":"729baa4c0ef75ed8aae74637b39fe3c":"":"2ad0d607c":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,128) #0
gcm_decrypt_and_verify:"449d39f863e49099984b37f2e5c09ea4d4b3e9fa67bd57c299e4e1d1f084aa3":"":"d8e9118f331bb5a359f0aa8882861b72":"4ddca0e2b4d622e1b2bdaac7e831dab7957af051d27dafaa5e3ae4ddd3f989ea259892a4f1cbf3c38bd8d841c55600b5b816f1b1fbc2d36865d13a55b50219462e021f8a21848a64a853263031fce8fe47a6ef4a45d5d2bf1f637444ffcf3914e2dfaf5dd556421bdf297be150b31db309ff02cc22b28e659e70ceeb":"128":"c595b9d994148912289fa5ed5bbf6c3e3":"":"0

GCM NIST Validation (AES-256,128,0,1024,128) #1
gcm_decrypt_and_verify:"3e70e66813fc48f984dcd4d1e9c24f1d51b17e1cfe8b1a9581827e7c5a5cc6":"":"d80f41051e72c9b7117002b862e45f1":"01bad2b7a878e7e8e6b87a3523a8fa86a22b2af041cf1ec6f744ffe07ce857c86865d623f5d8351f83f0577de9b9430ea0a445472218ac626b0b0e7d4c1242338f130436a89add341e8fe7e06f9a4bf4d80d314d87ad3f921c7105ed0f54313b8151df7dfcf2c8e3790ef4d3f60332dc7f34fd9d0beef70f9093361d56b":"128":"c09c2e3fdffaf222f7345ae4efb978fc":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,128) #2
gcm_decrypt_and_verify:"8e534041090b45b80f8287de5cfa0ebd0a17ad8b1053e680f6e2c6280f8d8881af":"":"ead675b019eef5c66bf498f52a382d6c1":"b1dc220052c4ebecf27e9ed6b0de91be488179d717160ca2ddbd2fe497a05484f80b04cece48980057d770fbd0d5f3d5e363b55470167ad2caeb57671882833310337325ce4b0eae135b5b11923dec230dad43bb20885105767938c7ec4600fe06f398a14f3e6af8886fc874c10546749da295f571e696305b9d1954862e9f3f52":"128":"9aa0cdd5686ca515cd58ed94938ef4":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,120) #0
gcm_decrypt_and_verify:"2de18874470c09db683cf45cd752bdafa8bf33c7967220b1a69f4112a02da1d0":"":"af30eb2d0a0ca50ea413f3285aa88d4":"22889b8686d8c23ec888406813caed199b23091idd796e8362f56e7ce75a39d57f25b66a931feca958659b6fc5b6b9343b8217ed0abc010aafc9416601155262b57db39862f55559f0e15958e19ae004f4bc9b25e0269a9ea38a4635a27bfaf719fb249f4a93377976bc5f4166bba87fb3b19f0d8e112920c25a05b0bc822c01":"120":"646bcb914681af65b0d1c4e9f1d0d":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,120) #1
gcm_decrypt_and_verify:"2de18874470c09db683cf45cd752bdafa8bf33c7967220b1a69f4112a02da1d0":"":"af30eb2d0a0ca50ea413f3285aa88d4":"22889b8686d8c23ec888406813caed199b23091idd796e8362f56e7ce75a39d57f25b66a931feca958659b6fc5b6b9343b8217ed0abc010aafc9416601155262b57db39862f55559f0e15958e19ae004f4bc9b25e0269a9ea38a4635a27bfaf719fb249f4a93377976bc5f4166bba87fb3b19f0d8e112920c25a05b0bc822c01":"120":"646bcb914681af65b0d1c4e9f1d0d":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,120) #0
gcm_decrypt_and_verify:"41bb9122e762ecdf7f861a1d65e52607d98e7ae5bd1c3a944e43710f3b0599":"":"32f99e4a4ebf52c2701e2252e5e6c863d":"91b7a70c3a06c1f7f2ea584acb5dd761777ba07323c94f2afe8f7eb93f0cbb7c389e3c88e16a653174f06c373bc778abce19b61b6e92c2969d3441eb17a8a83530decf882472af63c0b636533b04db79ff05ebfaadfd221ae1c14a3f02fa81867acffda35df8e18a9d11d42b9a63288c759063c03404c3e6ee69cf7c75f9c33feaa":"120":"aa8e29e08623a3efdbbe8b111de30a4":"FAIL":0
GCM NIST Validation (AES-256,128,0,1024,120) #2
gcm_decrypt_and_verify:"3bfad1e8f985057f79ba3f2909ea5e91b494c2d9953420362e171a75431777ac":"";"8410886b70c57d7ded8596443bd1b157":"ca801c835967957515ea931edad0a09e06e3328bf4246b7036e10b317ed2d09a51b2981fcbb664eb3b4f180bb012ed1cda21ab6c790b27c26914fe59c9e9536e2453d5b247cb054e295e2687b725a97bce484
b8e8b866c6ecee03bd07a54a9301a3ac0dddb23aeceb825a238252e27575329058b4e075575af71e6439ed5f5ebe163ce5f5":120:"e3645db060c060ba52044eefcecf3c31":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,112) #0
gcm_decrypt_and_verify:"65debdf2f219a1a6cd8e8ad45dd4dd0d8f731f67744e2545df662ba7cba89e1ce00":";"fdab2ee547dd8b66fae4a2dd19697b3e":"d2b0a0438ee0f145ae9ea7ca452b788ce473152b78b7f56ace721af7b0aee1942049
b790f3a5b6221a8760295659756d35347cc04209be03459f3f23a71209be40b6be13a253a888c3db32373633ad69a539f
7c9fa4a12dc64297e793dfaf0ab53ef766be619d5bf635d66ee8f08662fc03ec9d40eff0a43f23ac13617bf9d":120:"c25f157c3f24748852e0a488ae":0

GCM NIST Validation (AES-256,128,0,1024,112) #1
gcm_decrypt_and_verify:"496ae8130840640d40cd2fae8c0739f16b87205cc757df0a7a1473e3b61570":";"77233d9f65e174433778728212b411bds:"855fb5b4dca4af5ce808120bd28d9d4e4964f12623e576849579e7c4d12a0d5839
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ec339d0dc6b7f25978f9e0f9d956dfabf27056e3a908c649727641386e8606b9d56525294cb92908b566b065a":112:"4ed91af6340e70b0c2b94ab6f82e":0

GCM NIST Validation (AES-256,128,0,1024,104) #0
gcm_decrypt_and_verify:"aca18813b46139ec7c7efc82a6aa8eb2fd73cecad1e475c663bd62daf1e711d":";"7bbf7bf5
5eb70cc94cca26bb76e559ba":"015fba90f09654556f60f31992f3d3c5335929e1f7a53df59786ed64291545eb99a57d
e82d3598ce782b68d14ac04a8b425395bd076ead59eb4457121bd2f54e19a0f8917800cbac7b8313fb165cb1122ac
b654ea1242cdfe6885ea1ccb728b1270cfa1549cdfbe94c77a4b3ac807e562e48c0665665f6e66b502347:"12:"3b
2cb5c2a4261d75bfa066b25ee1":0

GCM NIST Validation (AES-256,128,0,1024,104) #2
gcm_decrypt_and_verify:"8cd68156f6ce15f03b7a53f1f59c8777a5981e0ab7f6e6c261dde4b47cb2f21d6":";"c431c0e7
9ad5f5f6124a017259cdddd75":"4e1a835402bde4f5227c64b4a1f8df023a943e18193773cf1db9f621b9a1878eb86a7f
3b97ed0babfbd674c74c5604a03dd01d671000a72bbbd0a7f17fef5ead60fcb36a3e242dd0fd6b36dd4db415f3501241fed
599796ca3f678df8e7ba51bb1775aab348dddb3636369a7b362e9488aedab8366b1f9a1580b129e8ca0a53a81e":104:"0
e463806ff34e206f703dd96b3":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,104) #1
gcm_decrypt_and_verify:"80fa72abca1da04aa7fae501f9a3b6b6d00d36f6e984731db8a286566bfe850737":";"ab8acd0
63775db1d1314f1e90fdd1be":"02c6dd46e7f20b725d8cde0a638e2a49b02b52126889013e45251f27b2ffadb95ca4a
9a3b16aad60999eeaca4473e813045db942e9bf92f5e54e29db9ac298372344d1b781dfac6bdf779643ff1ada6124e
b0aad599044b54279ec9eb25714aac83b9ad2487ec7f4b1ee245f7e3d4966af1d4cbdeec820132541f0364":104:"3
f0ccc134091e0c0425887b1b9":"

GCM NIST Validation (AES-256,128,0,1024,120) #2
gcm_decrypt_and_verify:"417135cad74280e6f8597d7c971431c59cbfa63bbf719e3ab37c4b1d6d9438a":";"0fe22d
9ba1d0dc32656ea3f07a51aa27":"a0b7217e81d329d5b076a4b2ad8632e6ed61bd79da5926056e2b92bf1ff37a56bf
2f53413f9c574246cda1e9f535fede499ba958f390cc5440fb04f4f84b7846848ac02a3af5b51f4e97a1395571319c
e5b40ffaa986d77de280d82343983982638326e0f030e013af19c34672975dc99cc08534a1acf7c617d965":104:"88
b8836c91110739249a4b3069":""
GCM NIST Validation (AES-256,128,0,1024,64) #0
gcm_decrypt_and_verify: "2854188e28b15a4bfafe8b528a025c9050e03c54796f242716e91bdde0ec6f2idea": "075af9c35f25b298920092cb999e7a0": "e9452f71093843a025b5f0565b6a54eb93156ae48136ab9594648481181822b62ef0d75d5891f1a3397537093a261de9a764887b477e1af5f671716e302736364ash2995295ed0fe1c77e0796616e20207948eb8530066a06e0a5b9381b947b10471456ed90e0a0e5d63a00ce925b6b8e5df40e77f0fe18e7802b0b477: "64: f8fd87e5a31eb6": "FAIL": "0"

GCM NIST Validation (AES-256,128,0,1024,64) #1
gcm_decrypt_and_verify: "2bc445ac0635ae6e3c3815fd18bbd0c60ea224f662d09bdeac42a25020211f04": "43cf5367a99553ae1a0c4d4a33059": "db0bae8ce7c6a8ba2fedec224f236212e9a7ad72371de285c7d6d2f6cc22df0e4920e0f3039f1eb1653c4490050b9f18a2af4711759760ade414707df1ffcbf14a8ed5c820135576c28f49343feceb201121f3566212c48ccee9894ac04772fcd9b11ee1444df7b73e35b8a38428ecb064c9c50941d2535e0b339f424db83": "64: 49a aa806cb2eadd": "FAIL": "0"

GCM NIST Validation (AES-256,128,0,1024,64) #2
gcm_decrypt_and_verify: "78b280f99a7f51bf22d993ed682e488595617a607ed74aacab6b60457453080": "d48dac1d8d77e245240f0eb2598812418": "5f07f85f4e7c84a556a16e4fcfbb6e1c8e516e710c0e4273d11bd95c1380ee157baf01a696689195f3493f3e335f3235342fe8ed644443483e721b58241a0320be838104de2d4b7188661a373fba592164eefee9f122bb43927396f58151418672eb74a7f45c029503a0d0be18430e81ed443e08b74c03183": "64: a5b17ec845b25d": "FAIL": "0"

GCM NIST Validation (AES-256,128,0,1024,64) #3
gcm_decrypt_and_verify: "7b6da11db9fa3e4c907628d3eb6395c7e502fc901372df907e064e70831432": "6fe21481f250ea178dc48a4843ed87": "a8097bb74ded7766f75e853f585f85f8915db9bfa7262af700ce876ce114e07557b6786dd5a60a66db2703e7c9de56b642aca92568aecc5d1ccc298bdf0dbd150b8cc13e9a76896f78764a9d4ac4d1f3ef4aca423e59830aa725ab3a6284e28966ec8329dbcbb0cfd6583a5ca309de86549a6f317d155c59f828cbcf7437310": "32: e9c
GCM NIST Validation (AES-256,128,1024,0,120) #1
gcm_decrypt_and_verify:"e61ada628a76eb9832c6b5efc59d2d688bb578366af6de2d7342333fa95279e":"afaac738e0bf35246b8a466b63e19f8273093515d25d0c0e6dc7e048253a63d35c61e44a12672f1eeae1cb925610b482aa422bbee0e1784fc69bacc3af9d6951f6ed62a17957b4ab31862a4e7e680a5594d3f2f761d09b3ee6efb3a312a663ecb6737e5b62a0f6545d7e825006e7e9112e274bc3b1e1a4b6877a53c27c8":"5a100b451e3a63a3e64db4a8a9e59c6bce":"":120:"8df9a1ea5e45bd2fe2fda6880b79d":0

GCM NIST Validation (AES-256,128,1024,0,120) #2
gcm_decrypt_and_verify:"6e987693d0f7b76d1282eeb3da03e05d9555f81929b1a2c271574862a06d7dec3927ece52a1451f3e3e6321d7208888297b24149af678d6504e1bfdf6a62bd2022d3e2b8363868f7041891ce28180403e906ab46ca748e5b3b118904b140f4b271c9427c8470947782d1c13db40e78fc8276fc134f3c299234a301":"4e022dd86efb3d73f8ebc9a7ee9797711":":120:":e7df79aabfe0f11299cb3882ea345b":"3b20473d9b5018d089e174d73f3fe22c2805949ae907689819373c704a64db5d909a88d696a8b3a9e97402ab703f08e18bb2959e153c3540a25878a91b920dd53f12e0096b2dbd728ac7ac772bbf4c4de9e4a255a5d1b04e59625a87b82789bab613def58d8905502abf7f09aab265d20c587782732c7bbab":0

GCM NIST Validation (AES-256,128,1024,0,112) #0
gcm_decrypt_and_verify:"4103b1df87a508a219ec880a0ad4750668884f4ee27e5b92d870b98ae294":"a96db0a22a09df4d597ce6957d9b00b6bd3893599ce70e95c09b456be33292b919703c23523f23288b5e6f55b9b5e3ee64174845eac939bb06731d03eb4e4f949d50300b6ed94cf540b4dc759d3262965551280badd18234b71df555fc6e8a5031c1dc3e1e1d981939582d8336e905717c8781071dcf9d9833fac8158e":":7cf049fb54f5e68c84e81ad009284e6":":120:":b2ce0f3d0a09eb313d2babe3eb3b8":"a40b6f7075f72eb078d73368e7c154f7db50f152501630a2e7252d318e216e0736852166040d8609937722b99cb7785d3688ed934b49a1a7fe6d387836e2a3e92d26078646777b894a739efc94f0fe884a9c391154f8326b3f1ea5242a18a263d04da4b63b11e23b24d2e10a2d5460cb327005df050a089165b2aa2":0

GCM NIST Validation (AES-256,128,1024,0,112) #2
gcm_decrypt_and_verify:"43c82f0c3305d5b316a7e1657d681ca0588467fbd60f3d0de174442283f77":":ea2a5d295d350315356b175c3993d0b292e8a946fb9dab73e858ba03670248a1ecc923b8a55eb34792162271ce1572e35ccc2b7417b48dfcbf8f52a7a8845cc82a4461061b558ac8b9530a5c6491f1ba04a9d0df22b35d3e4fe2efe0f3db3b2dd90328f2caadb19573a785629962b02f5e02f0673b59f8a1f6bf18d9e3":":3878ee1ce1074fe94d06322ce02c":":120:62356850d12b5249b3725cfac0a":"17b7b6e9f1995c356ddb4de7cc276a546f9d5fe34598be47b7c052d9c7a99e4e3aba7d486601380e9c00d2a103d2b3e865fb3c85a0f930ff5ba656be708b766bba29105da6f731eebce81ff82aa5f26b2f80feaecf39a3a24595cdd612e2b934b4663f1957d2b3046bcdf855e346601e47760ca618ee7b5f5381":0

GCM NIST Validation (AES-256,128,1024,0,104) #0
gcm_decrypt_and_verify:"7e19e400872ee721d560202cd757d3eb9972949666e3a63dd88afe1066045a":":3fb9abc7
GCM NIST Validation (AES-256, 128, 1024, 0, 104) #1
gcm_decrypt_and_verify:"d0653934a16fd36c27d54488a1829302b931bed626ca26047242b85b50bf6b61":"c02347e1add91787d80bd89aa9ee37e9586b62fe1c846e2561fe838481d8a8859117f11fe4448b2f30d9b36c13c390e80f6f16fe6b8446e4a68534a3e2f38c8138f45b4405e3f3b131b64928219ad1f574be948ceca6a4f18d12488db19c35b050614e7c0af5d49a3a5dd44203f858e1be033e173776fa390df3948df":"984886a184aeabba5ed6b866f580be47f9":"104":"4b34f42085e4443e8b604d2":"FAIL":0

GCM NIST Validation (AES-256, 128, 1024, 0, 104) #2
gcm_decrypt_and_verify:"d0f0ccb88c7ece4996f26a59d9c667de59ebe49ae3d89ef3be008598727e214c":"7845e155f4f20821291e7c8141aae84f82b39900831aa82758fc1e3767ecae0b666f687f2f22adefe15f1db1f7ae7b42c01483701044acbb72a9216ec66bfef0190f114b3c76c985c465f3f11601c774d10b7f9df1fe11f3ff4faa20d6525ed37d9e5acaf6ed3468ee068d407f6b56c178e94825926831235978d72785f5":"e5ca84b907ac761a6e8a9080ada08a":"104":"c8f78e4139d3e4af82e8abf":"02ce3e50b3df9bada11300a3239a838c9868ad66256d87a195bfb13d5586feabcab58da4be9923c7c383e06dc887a6c94cc153eaea227c6a8e651a8742e0316cad5e5e9373939ae3603446b5c920a206db14344adbb8edbe4d1a878997f76ce61b2d57c9709b56433423bf4526dcd157647a46c45da9d52106f105":0

GCM NIST Validation (AES-256, 128, 1024, 0, 96) #0
gcm_decrypt_and_verify:"e35dcea17cbf39149a1ea5ba0650d6dd13b348183474d4b614742751bdbefc3":"5213542beb044910d74fe8bb88d9f3f57060e493286eaeaf1140858304d42974a4297c1842b5c6f43ca3318365b0621de48821bed6650ch59703eca88f4e9c3d15875f9d8785d85a7e4ba998ef68c203cfe60cfe52e28e3a993febc4eba439d63dd283cd309f6ab99d9212f4f3aff0b622f1f751b89d43ea10bb82a":"fa549b33b5a43d85f012929a4816297a":"106":"afa61e843cee615c97de42a7":0

GCM NIST Validation (AES-256, 128, 1024, 0, 96) #1
gcm_decrypt_and_verify:"844c50dcd0ac19d36a021003287d6ae6360d12bb17a853513624204ee4ca588":"3ab6f4ca0f57c025e158ddc2c5b08c0a448a1ba04a46de8fe90a737e2f350b3e228188c3303a6e93d5fd2f99963e3c94f3341c2426db25bb2c40976e05d0c21337ede51b64f1766ad185f20b3f34735b24278d9d647c533a743e0e1e98e19e9de9795c4d4e78582113d520f5e93f536056b4abac7c0259a78584ca15c03237":"f28512b2be214dbd774a217a4615139e1":"96":"f1d1a1cebe00d8eb4e02f5eb":0

GCM NIST Validation (AES-256, 128, 1024, 0, 96) #2
gcm_decrypt_and_verify:"2aee1a04f2a0ed2d6d3836d96443e9490f24203a13e27f8e2d293ed19c":"8e5b6b94e47d01de9a191d3d3c0c1eb94dcbf28847c754c62c100642d9e96f15b5d28ad103ff69e6be750aadfd02fc146935562c83e459a3932a2fd5d3a2eb851e6cf333345bad52e243ae4f5524d66e7ca38094ced60360466eaa1710976ff06064952e8ca94a9d4c2a51e13b06c54b8ade65f397a1eb1f186fa51":"3da9a13567d67053ca39a6e3606f26400":"96":"e10266b3d15d261b12f47632e":"58c52eaef9b162511160eeed1a68b6f52b3c4f5834af728de97a39de43a3792a9dd1263600a153c5b9f448e68f456ce555ae497a1d056c2a72603a7efc585a7b18ac500d1a51420820357e7a439b1c02198ebe3d4e62d5573a3af40900a21e3b41":0

GCM NIST Validation (AES-256, 128, 1024, 0, 64)
gcm_decrypt_and_verify:"1f3d69208c0b2d3747ae9a2311cd46ec7c1574ff950c48bbd1ba03f1d615636d":"01df06ee5e8f2e81d1a73bb1da93c22cf6e604e8998be75b0d8430bf9b216330424f58089050c3f3f620ec8af9d09fb68d6e8b3a0869e6022f8a705fc280d66d616d3aba73956db4ebed44145d51d4256285f36572762d6294c081364a6d440511de8
gcm_decrypt_and_verify:"e61b1a6b40e2a1245f56dfcb9998318ac4fe55e9ed600cece301dafe32ae09e3":"86d7f9ac9f078e421cbe3b25aba739a0be09a091idd606b161e1e8e88350cedb27342f5f1512696e20ac7f58fcf434ac746649612
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90248e2e457c19b0f14f4aff4dfd78d4a19b3251551e5e835b05d09412cf1ff8898895195e665f62c820f07642e3ae
69e8122b06b09ad18e8064008b9615e1abe66d4f56a76d02d269038":"32":86acc02f":"7c73182eeaca979617bb47a46ece326a491a7e995918c893071b1614a8e80406416c342d20150573e28ddc3ee968cb303a9d49017f7318d5f2d169d9a47770ef022395d6104cd623d93d6709a027507c8ca04157e7939e639e62c0e7d8a4723143330ceaaa9b2f5d5aa2b02854e3bfff25cc6d38885c082374ae52e03ed32":0

GCM NIST Validation (AES-256,128,1024,1024,32) #1
gcm_decrypt_and_verify:"4f5a02e9843d28c8c226ed70d44b8fced8fb757ab6cece4d4f06e3c3ce79e44f":"3ec13950d3ec329f24074714c583bdc35686b811177576b0a8fcfa66f56c6f5426ec9d0228a0af38fd8f271a0e68548330cdebe891670181ed4791b4f0c739e4f4d936896d3539292b225089d2b151f83d9b3d7d677300611144586767354e0491112c20540f2d27f7f9b4f3aaf79b820a2811984d48e70c1f2b1a13bbbd3dcb353f3b":"099e5dad88f96391a18df844a758e":"ad93e8662c3196e48c0db3aa3b93dc204151aa980ece78f05d9820f1779c1c49f9e8e8d6e7e2385a4146b2a1a43a59e18eb8b2214f246596db686fada7c7e8ec144ee62eb09e9537d14b6cfe5297204c3112f4ed582520d6f29d4e39570401e17e19c60b3e8f2b00c666604c38946eb9b2f17336d281b4794f71e538a2":32":30298885":"FAIL":0

GCM NIST Validation (AES-256,128,1024,1024,32) #2
gcm_decrypt_and_verify:"1cdb218e0b0de02156e5b4818290f778889793ef6018a8928e6116ac047e8e":"4d039618a8eb6403299f09e79de18b29e3fc7a0db4c97774ecbe828e2e87fe1097c831f7837a15616efb37b1bae3215e6e8
c1cbeb840051158e46850f3a1030d26e2f30430ebdab2796aaf9897e9734ada9026734e13d5edecac838aaf2b2385906236529a1b7dd5fba2f611a04cf4f83b15ba41cfc":"d2f2b167b868b9e958e08e5c7653c7e":bc580c4223f34e48676d97f7e9f8b03629d1c0073d94436652cafd1408e95e9c75474c554b0f2bfae35d35160ec2339964ab6d067c7f65efa914f16cfd6b042cb2e4745129ca04e0646f92a7b7b669eb70be9f9b2569e774db7cb7aae83943e3a12d29221356e08e5b1f09e65f193d0d9f8e8982b843b8b062e649163dc8":32":1997daad":"FAIL":0

GCM NIST Validation (AES-256,128,0,0,128) #0
gcm_decrypt_and_verify:"7b47663a6615ec58b390d0aa228ae7a5414c6ec80a1e2e227cc43cb777df3232":"274367f31ec1660f1e87a8e35b7a22dd":32":5f3a7575b96e6e9b246ed9bac9379f9f":"FAIL":0

GCM NIST Validation (AES-256,128,0,0,128) #1
gcm_decrypt_and_verify:"a2b7cd63a6615e58b390d0aa228a7a5414c6ec80a1e2e227cc43cb777df3232":"45e6b23f8b3f63ee4d4b0ea6880b2e324":32":6c0a1c9c2f54a0407b0a1df5958612":"FAIL":0

GCM NIST Validation (AES-256,128,0,0,120) #0
gcm_decrypt_and_verify:"7ca68e300534a90a7a87ca9906e4ac614a6a591769b6e61299753a4f83d10317":32":5f863b3f63ee4d4b0ea6880b2e324":32":aa21f221266e7733ebea4440d1d01":"FAIL":0

GCM NIST Validation (AES-256,128,0,0,120) #1
gcm_decrypt_and_verify:"a2b7cd63a6615e58b390d0aa228e7a5414c6ec80a1e2e227cc43cb777df3232":32":5f3a7575b96e6e9b246ed9bac9379f9f":"FAIL":0

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GCM NIST Validation (AES-256,128,0,0,120) #2
\texttt{gcm\_decrypt\_and\_verify:"156b854beb0c276a5e724f5da72f0d1ca4ae7cbd5f93a2257d95c2e5bf7df8ad4":"a5129e2530f47bcad42fc5774ee09fe7":120:6bb09ed183527c5d3ed46f568af35f":FAIL":0}

GCM NIST Validation (AES-256,128,0,0,112) #0
\texttt{gcm\_decrypt\_and\_verify:"d824330c6e014126e1f709d63227a9a731bccc42b4adec1d8f0161b10b4fd2ab":"c5afaad5312c64ab3c3cf9dc6c40cc47":112:55952a01ee29d8a1734bdff3f8f":FAIL":0}

GCM NIST Validation (AES-256,128,0,0,112) #1
\texttt{gcm\_decrypt\_and\_verify:"b5517589948d8aea778d6f6d6ec1a170d327f69e504f0a4bd504e4286a9f578":6404b111c6289eefa0d88d6171bb730":637f82e592831531a8e877adfc2c":FAIL":0}

GCM NIST Validation (AES-256,128,0,0,112) #2
\texttt{gcm\_decrypt\_and\_verify:"d824330c6e014126e1f709d63227a9a731bccc42b4adec1d8f0161b10b4fd2ab":"c5afaad5312c64ab3c3cf9dc6c40cc47":112:55952a01ee29d8a1734bdff3f8f":FAIL":0}

GCM NIST Validation (AES-256,128,0,0,96) #0
\texttt{gcm\_decrypt\_and\_verify:"9df3ccd95f7570f6ecf5e5329deb79bced46c6b0f83ef03aa8e5bf78f98ed":98ff89a8e28c03f3":FAIL":0}

GCM NIST Validation (AES-256,128,0,0,96) #1
\texttt{gcm\_decrypt\_and\_verify:"2a7b2e07ce148ff0f27ae28c24a1395876bbbed0c20f3fd637330e986db025714":8f7e1621c2227839da4ea60548290ffa":99f25ebd6cfa7f41309b42df6a5f48":FAIL":0}

GCM NIST Validation (AES-256,128,0,0,96) #2
\texttt{gcm\_decrypt\_and\_verify:"b3e7837a7b538ae6d4299a1ae4af3c2460d0c558708e0874db0a15689b8360":05d363b2452bef4b47af0b52ac9e973":6b4a16d1ea1c21b22dbcb235":FAIL":0}

GCM NIST Validation (AES-256,128,0,0,64) #0
\texttt{gcm\_decrypt\_and\_verify:"9df3ccd95f7570f6ecf5e5329deb79bced46c6b0f83ef03aa8e5bf78f98ed":98ff89a8e28c03f3":FAIL":0}

GCM NIST Validation (AES-256,128,0,0,64) #1
\texttt{gcm\_decrypt\_and\_verify:"c7123e2e8d3774c8f11dbb2272f19129e04f29b4351ae19c39d24e6e1fe87":99f25ebd6cfa7f41309b42df6a5f48":FAIL":0}
### GCM NIST Validation (AES-256, 128, 0, 0, 64) #2

gcm_decrypt_and_verify:"490090323e9257517e2453469ca4314045cabc4d05d5ecebc6b9c06fa6d19291":"":""c1beff1ff6cdd62339aa21149e4da1e6":":64:"f998d7c08d609b3a":":0"n

### GCM NIST Validation (AES-256, 128, 0, 0, 32) #0

gcm_decrypt_and_verify:"360e48dd38d9e715bf29a2994a5b3e9c70247102d94099ae791850807a4c845":"":""88126c350dfe079c569210ee44a0e31a":":32:"f2ebe5e4":"FAIL":0"n

### GCM NIST Validation (AES-256, 128, 0, 0, 32) #1

gcm_decrypt_and_verify:"1562b32e4dd843edaf4474b62cadd8f46d50461f5b22e9f1a8eeae7367d35d71b":"":""af29fb96f726c76f76c473c8739e08":":32:"13f6d6fd":"FAIL":0"n

### GCM NIST Validation (AES-256, 128, 0, 0, 32) #2

gcm_decrypt_and_verify:"d5160d0c98ffcb1c26ad755f675f89000e2bb25fa940e6b1d817d80f421353d9":"":""1552604763453b48a57ce1aed81134f":":64:660c5175":":0"n

### GCM NIST Validation (AES-256, 128, 0, 1024, 128) #0

gcm_decrypt_and_verify:"c3a3eaa3a097c0c2b3a4cb78462d87fd5a8f348687c4150e9d3354b388aab13d7":"":"f77945992741bb3a454d8e3da193e69":"a69bac31241a2c07fd3f7e331b7ff62b16e76cb1c81075f57b8b011f75875e9437b02eb7627aca7b9a099c1b4282fe93d6deb31f6dd2d07297480bdeb92d985e1aaad4eebcb6fad83beda95d1c9f615bf5d8a96d4ed5bbee1f7d195e9b2ef5b2bb21a596d69f257c18a143eda870e22d3f2ed20e9b3b0d88a229c462fff":":128:"6b4b1a84f49befe3897d59ce85598a9f":":0"n

### GCM NIST Validation (AES-256, 128, 0, 1024, 120) #0

gcm_decrypt_and_verify:"e1662327d987342ba5c8e63b7b4ed65463a2b9e831f4f9f80325fa867d1d73":"":"4e25800deb7cece2a3211f8b44eb7d":"ebafdf55f8244ae031117c69ac4b2baaaeaffe7e07599eaba678bfc33a9914dc9f80b69fa1e837a5544caba08064a8924064cb4d783623600d8b6187a08b4e4db9218c3bedbbe078e1534ab52331f949b09b25f7b3cece7054179817bc15b4e869c5df1af569c2b19cb6d60855b9ea15f2efcf497c168c6e683f2":":128:"8fa0bff913111a1a2827b866f0ce10878d":"FAIL":0"n

### GCM NIST Validation (AES-256, 128, 0, 1024, 120) #1

gcm_decrypt_and_verify:"938da64b837275b0c80c442bfdf2301aa75e738f7e65a775d10a8ec840f62ff429":"":"dec6adeb06216cbb86ac3aabh49af9a201":"4ac14ab9df504569444130ab67ef3e4ca045f4d9336bba0051c79db45c22c90030c45aadcbf53ce8199be0cbcb22dbb9a9388a71f4b3b0e8c8ed32590a051abb994b3427263b3e9701f183b2092985e3457943a6350bcaecce2eb6111b179e356d10ac080a577a1481785111d5f294c28519c047ff94392a51a2c04a2d8b5":":128:2211ca91a809adb8cf5f001745c0563":"FAIL":0"n

### GCM NIST Validation (AES-256, 128, 0, 1024, 120) #0

gcm_decrypt_and_verify:"e2c436484ae1f454d6451a8d8d1b574b2087a3a3abfb4a34869299b55324348b43d":"":"97040d2ec094fe1c6d4a35b35b7451a7":"bc19867513ce06e6667d5f2b23215fa5d8f92042f34cc9f373a01f94607df1a599132f60a1009d9be52162dd7b16291268b11700e085fda8d841d0f706e05e9c795b83e55155194f399594015b90a19c04fb992ec28940f0e1b5b4a5c48bb3188b33cc0df1cb1d71c389473df3eefabfe269ca95db59a7c0201c253":":120:2e080ba16011e22a779da1922345c2":":0"n

### GCM NIST Validation (AES-256, 128, 0, 120, 120) #1

gcm_decrypt_and_verify:"1f7b3fe72eba83aa5b102f90039f8522cc3d64f469155e49f1d9e02fe9cc13b":"":"f6120fea313362524917c53d90bab4f":":600c2be7b7d15af895fd19a9ee775fe2b183b45cfaae4fcbf50d421bea97347e41a9418c
fa129b2dda63b889a70063010215dbe38c37f3eae18bc31b34f31b726f22177f2b4b9d648dd4a80edefd12dafeae1b0b780
3224354432d1c62ca22b8b844d162cd0d30e988d2e1a2458fdafaacbdf9f28756390f66de60d7ea45";"120:"83de3f521fc6fadaf902386f359e683";"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,120) #0
gcm_decrypt_and_verify:"66c1d9ce3e0fe0966c33e3df54ec1cc32ff1e2514b953103d32ab4dcd72633a";"46fd888fdde9b7d7a4893802a030256:55df2f263d2e3e0f0b3900ce1d1ed5f666086f26e1ce2f0802bedbb810ada39226bfcf6afada5m56e9326c9766f020b3e66278da2fa3b1aa7dbb6f3733e3c3ecb6be646b1a39e27c5aa449db9559e7a349963ed66dbcd6a00e7a3de7af7db16a5bbf585b8d996b16c3aa0fdd73d7b580b6a820f439f49d54d366772cee115";"8323585f0af2b166bf20cd0c6df77935d3";"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,120) #1
gcm_decrypt_and_verify:"d7ec9f4920dc9497232cd5810f316d11ff9e85d36c403b5943ba79836d88ce19b9";"7e9f788f099cede9d5969d49083a4907";"1ca1dece3c3cede2636eb72210e551c9e0a3f5570d5be83a94406b545d854bf17e75b9cd0f4c575222fd71319a317b2a8798845e9316a1c81024d2a383b95af42f6d5700ba0b8f6f2e19b6a6f609b73ad643d4a4d9eb3c209b024e0871c20e0d2e209f6e9dffe7ae18a654a02a1131ced5ef5661db9d096684e345fd1";"8233585f0a84d78d1905646b66084";"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,120) #2
gcm_decrypt_and_verify:"ef67c70815a123226d16bd23e088bbaeaf9b7830f7f85e10b33d30e12afe";"e0253bd1f19e99a7f8848206b8a4ca4";"397987e4a856f90d14c3cdefe1ad3cb4a7e23174ae2abd70d2a632089584e03b0c3f3df526f41feedb3579b0f632874e36eeb5df5f19204c81d88b0b5e5966519e5a083b0a7a6242daee6180e517ced76467f77d19ec1a44141817758887a8d7265e6e2279b9d33cd2f1ba10fd546c694d8a5dbe2318feff629e8e2af0f";"477b0a884d78d1905646b66084";"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,120) #3
gcm_decrypt_and_verify:"c9eb3b3817eb02d67f17835c2371d528cbecb29ce5e7a55cd2da131cae184c6e889";"f74156d6400aee46b6125318488bfef18f";"1a8eb2ab05cecccf2391273126fe4a4426b94d2c3b97a7f1cd2ee66b952bfaa546e972b5a1701d5ddb0eb5b7a248f4cb7107a9f77e4b980686a8118051919a239fa8e1370e3a2e1a8b16f7323a3f6c6b8991d792570167848a56132d68b7e38386258a9233dc8a9eb7343bb3052e84236de388b5369acd038404e9a40b38";"104:"0cb67ccee18203393fa0552702dd";"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,120) #4
gcm_decrypt_and_verify:"e6f5f65ce2f8e8c3f6025f9d0eb7d506dd771337913680ac16bdc5d1565683d";"9212a58c9576767d1747e98cee6f184";"55aa486c183dd13495285002e210deafa1e477c6308a59c4097884e0aa4715dbd5b4ab86f4acc780a00b51a24f08496dfaa0a328359110ce9a11b876e7481d0ee2a32951ce7c2266a3e3e2b560363c50e3d26fa332c319e139b2b8825b7aa5ebf133a5ce7483f3eeb1111670995e653131df0cb360f2174f64cb6b37e";"104:"08d77cc52d1637db2a43c399310";"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,120) #4
gcm_decrypt_and_verify:"0e9a0391435acb57eae2e6217e0941c79a3ff938ec6a1988a7db2ea972e4f954";"27cd1d
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GCM NIST Validation (AES-128, 0.1024, 96) #0
gcm_decrypt_and_verify:

GCM NIST Validation (AES-128, 0.1024, 96) #1

GCM NIST Validation (AES-128, 0.1024, 96) #2
gcm_decrypt_and_verify:"fe5e479ad0d79df717a1f51f5250d467819e444b79eb3def1e0033c80ddad8:":";"47ce838083fd7d07b85440ad5337cdce:";"98476b0f05a18e4f1f6b204dd779e1ac06d838705a0a83f4e24be5ce6ebf3b2a1a5049b67f4aaabc8239cd6f5f5604bchad1e2498c159b9bec2a6635933945f6ea49e5bc763dfc94fb3643d3888f16105ab90965e24f51cb4949406124145e9ae31cc765534b14789f238b311099df2751f674363a7ea5f8fd930916537fe6a6f0:":";"a3958500:":":0

GCM NIST Validation (AES-256,128,0,1024,32) #1
gcm_decrypt_and_verify:"27d4dedb71a8f68e6a9ee2be9e56a7722bf50a9b79819d1ce29f4f585b2d1dadb8d4:":"7e6f0343c54539717a97b6c8897f7dec4:";"d386db78403f7197e17379bf7a97f1533ada2e3baccbeb5744996eb518e5151f0081d76b72ae0f3016e5fbd2ad2497f24569a5b9cdac50c0b27691c00d6c192c24073e99c19fc8e142087c0b83c4ece2f7ba1e969394e5620ab2d1117d5c2d2ac2298997407fd5c0d008de8f9941a4a5f8074736a59404118afac07006e6:":"32:50fd1798:":":0

GCM NIST Validation (AES-256,128,0,1024,32) #2
gcm_decrypt_and_verify:"5a7aa836a469d28542d0d2d4322fada6266da8c8f89c6b60388b7263d32a5f7b20:":"7e6f0343c54539717a97b6c8897f7dec4:";"d386db78403f7197e17379bf7a97f1533ada2e3baccbeb5744996eb518e5151f0081d76b72ae0f3016e5fbd2ad2497f24569a5b9cdac50c0b27691c00d6c192c24073e99c19fc8e142087c0b83c4ece2f7ba1e969394e5620ab2d1117d5c2d2ac2298997407fd5c0d008de8f9941a4a5f8074736a59404118afac07006e6:":"32:50fd1798:":":0

GCM NIST Validation (AES-256,128,1024,0,128) #0
gcm_decrypt_and_verify:"a9444fd176ace601d0221fede3ddecc4ff7e9959d81a831297c4ebda5122a1:":"c146ff5a98496cad7ceced7a2e2a47e1f0117d56dbd2562c23e9d4b4fb6383a3fcfe2209846ec288a627208e0b2fd36b5830c1fc7ff4d19795998b1a95cd1f3effc46db9994b291e41c63631c26a10b1ab67793476d58f5134612230f1ec49d7ef16c6fe52fc6eea46273982f6fe729b2009d90ed84e0a0b0d9b9776da:":"5714732145470da1c42452e10cd274b5:":":07764134:":":0

GCM NIST Validation (AES-256,128,1024,0,128) #1
gcm_decrypt_and_verify:"686d3bd071e3f46f180611bc4ec8d7726672b6c617e7d42b33395f9318e93e6:":"21983ad66449c557263aef299ddafeef8f31d576fc17ed2d4ac3e836fl72ce2aef3094b2695425680e188df10c174810ef1dfbaa6c832baecdbe0992e47121447f61ac909b4302cdef6580951bed53b536fa4b38c9df4192eb53ef090d979a343492f8411b1dec6eb24b4dbdcb9b0bbed3e46f594097ece4727194ab79958cc387:":"a1745e143aeceff2eafa8824e1adec4b":":0cd3c3e1610d57e9a4477ba4a44cc36:":":9610908a0ebe2ee8589581c9e512e1a550705a212d311073bb2f924cee07af1e6ee4c58bdc8dde806d284809065838416fe3e1be3e97012ce5f3863a13d4870f61a94a6e78ca22a21fa25157d6b6c847df82359540ce9031ee42d78855eed906eb8ea3d67725bbffcbdbd3438ce9825f88f8b6b6f7d82eb300c1faedebb6b:":0

GCM NIST Validation (AES-256,128,1024,0,128) #2
gcm_decrypt_and_verify:"686d3bd071e3f46f180611bc4ec8d7726672b6c617e7d42b33395f9318e93e6:":"21983ad66449c557263aef299ddafeef8f31d576fc17ed2d4ac3e836fl72ce2aef3094b2695425680e188df10c174810ef1dfbaa6c832baecdbe0992e47121447f61ac909b4302cdef6580951bed53b536fa4b38c9df4192eb53ef090d979a343492f8411b1dec6eb24b4dbdcb9b0bbed3e46f594097ece4727194ab79958cc387:":"a1745e143aeceff2eafa8824e1adec4b":":0cd3c3e1610d57e9a4477ba4a44cc36:":":9610908a0ebe2ee8589581c9e512e1a550705a212d311073bb2f924cee07af1e6ee4c58bdc8dde806d284809065838416fe3e1be3e97012ce5f3863a13d4870f61a94a6e78ca22a21fa25157d6b6c847df82359540ce9031ee42d78855eed906eb8ea3d67725bbffcbdbd3438ce9825f88f8b6b6f7d82eb300c1faedebb6b:":0
GCM NIST Validation (AES-256, 128, 1024, 96, 104) #0

gcm_decrypt_and_verify:"24095a6b6e6b0320ca7e2a7b8e8496a45fb4000f43e68604c3e386fb852ed2":"4690edc843e23a2d9db99a4da8b8af193fb8f038973d29759ede9c0f8a7979c0f5d439999f60461f5e5cf43999bf0d54bcbe075695e4d46767298cc2b75eb3e0f51ee9adaa93f774c004d2e961d34e3b77ef7b6c15ab8839011240a4c4f8d2a2f33560d46e2721a060d47617936f9bfc703db0bb9ed94aa42c5b95f3f:"0955cf1027edca279e160748866f0":"f1560c75c4a9eb6b917e37b3d04ab98a58579fe6b2d67354af94af0ca339ca0a03a5b9ed87aaf623b698113ad3a85327e6783c3cc0e36d74fe07a51c0273c3348128bc660178f5df07e647c0b828a3e5e27e7a11158b7e79828304a7ad3d722403458477e66f4fe66fa6d5b5ee0ce174bf5f41927d482b1d8":"104":"75a31347598f09f800eecaee673f6":"0fd2da623529672676677f3cc4c6e6b35648821a42090aabb46286969c4b2d0ca208ee02bea1ea180f7936c38db45d9481fedcc42a393289efa7a820fe8edd062ad801bdbe777ddc26c29e49f1ada33b0d4e49479b705fbd89bc4df79e37af915d196bf5e5c3b4eef89f23642a9c4e9111ed07b0a8ab0eefbbf4cd5c3":"FAIL";

GCM NIST Validation (AES-256, 128, 1024, 96, 104) #1

gcm_decrypt_and_verify:"086b77b575197f0f15fb582237361b2167466daf8b08c583d8af144a6a7787b":"629317212ff88bd8a76764c00b81a95777de6397c832f99ac974fa2bcbcc6e3b8a8776db922eed0b014bf39327999ad79d0854ac8174770e1a27fc7a577299d316e006e7ef025d9b89729a0feee72a1e2b7fb4f9af9b477e8a7b0b3a39b5497a3b46eb4bf510cfce12a16e563f0603e9699aafacbee50a2ccaa1ee":"164058e5e425f9d4a02d29c9098a16204":"6633ae08a1df85f2d3e162f2d7dd92b0c56b74774f3c6cdbb9991d0e4b1e54ea76735c020d52d1c688afabbb15552ada2b34cd30a4e62b367f02deb0d2e64f3ee2a9b65624b197184143c2507f0d8a23a2bfc75c6bee294ada24052787d883f3ed223ca242624f0fa51a7c14db4f0766ec4d3e4e83b64f23706a24437":"FAIL";

GCM NIST Validation (AES-256, 128, 1024, 96, 104) #2

gcm_decrypt_and_verify:"0f9e806b09d37268561c0eafbbd114e7157be9cf4118d6e2b8abb91266745":"2a4e4a932ace26f464a906c75802303f2d7e09a1ed1d018013197853bbd347e96e0ce2b73ee78bbf951ed12259788a8ad2663fe440069a34988b2cc1fc9372f43cc65030208217257430ae5a4d878e07385dd99034e666b46748f02c80b179fe6406b1d33581950cb9bcd1d1ea1ec7b5bcfe6dc1f5b279412433a":"86579596634744689f7292645f013a02":"2a25355e893e58cb1a900fbbf62d615956e5c4186dc8a91293a63579a924af631bbd35f6369358a99a8557b6758863cb887026058939aa86e5826ae9b2544188e40f5420cd2db8270491b616fcd2cbdb1d847af350901dd61e59a1881b2ced3b0ac3bde445873543ec084f9d120ca5edd655779c13e6ff888447":"FAIL";

GCM NIST Validation (AES-256, 128, 1024, 96, 104, 96) #0

gcm_decrypt_and_verify:"c24a17911fd6db3be3c746c6c6f35e6fca1a5f577f50bb9f92eea933988116447":"0bd92cb1068672e5ad2477f6e5f384d2d0f432fc389885187fccc7b0fb99fd11a102d827b99ed1ad9a050dab07ff9a64734f83045d44b420a88d20baa44709391f1b62f345ae2c52d9e90417963328257a1229b0a9c45575a0cada29b5ca7871fa8b62d58100c43722c2e15e3b691321525526e7a5a91ce559717d":"0508ce5269e0e04197e2c00ec2d4ab8":"9aad4de311854925cf7f10eca45f5d4de6990cb2d3426f2d5a2e2f5a423690f5c59098b283d53aeeab76f0506c96edec4b5cf8e62716d1c385fbc2e4a2c2b7dd8e8584de1944543ab6f340c20911f8b7b3e1a1d1ba184aa4b9191333393de95815cae09365b016d1c384e1f3ce5f8511fa92b16bc3af387a2127019c129467":"FAIL";

GCM NIST Validation (AES-256, 128, 1024, 1024, 96) #1

gcm_decrypt_and_verify:"d267a8379260363ff3d1ec07a7b806ff75706bad12d37d9656f04776f3db85c":"80e68a33
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GCM NIST Validation (AES-256,128,1024,1024,32) #0
gcm_decrypt_and_verify:"84dd53ce0146cb71c132776033bb243098d78a22ac17f52a62a122f563f3be43e":"68222bffe782d2e4f4328fc20eb520e75a9a59fedbe13ec71fc0e82bf8ab88b7a8a8e02902638e32fe0e2294344b30879f7802864226fecz051c1379c884892344e4f8f077c95f5edd0a36a3bfb8aa91213347774ec4f0fe1049bf5d374b613beefec367169826c367056cb1aa9386e23f886e9c7b8015c26af9e40794662f6b21":"f090a1beca52f30ab3670d3d3bae0b":"a3ea8032f36a5ca3d7a108ff8d8a5e3d34a3d524f99e56274a0062e58c3b0685cc8f047c5e22a1f8f51eddf2bd5bfcff4493aa4c1054f7f27d89f51a8d382876a420677272d3787f951e67587b9025f1903ed3cadcb6bf69e0794e366db92d8e37e0e28de077884f356ac044d":"b1ece9fb":"FAIL":0

GCM NIST Validation (AES-256,128,1024,1024,32) #1
gcm_decrypt_and_verify:"9bb36fe25e966a075ae2c3bb43b587768f26ca04a792e9b478708684483bbaeeff269fc600ac0a31c5f780b535e15154f7c76eb4a371babae36550f3f3a2ce693c34511ce9b68f39ac5671b0de0e7e3116d729b45d1b16e453703a4ad3bf75d0c3e430f161b42420f52d6272ac3daba5437d81363063b0b9ca3d6d3e":"59869df4e5f545ab4046788a7e9669":"ecd125682e86698b80b95dec5e7ed7ae91176f893ee8af5bc6f21ed4d4386999ee7984ed13635f7f279329150579ca27c6a1211fced7b4922d18ad299cbe64596457d6400afae82192d2cf7171d5d5ced2d8ce460666fe0f45fe3f601127cf6ace2e11bd7df97309773974a35befe1d3d39841012cf9d4bb559e":"cb3f5338":"FAIL":0

GCM NIST Validation (AES-256,128,1024,1024,32) #2
gcm_decrypt_and_verify:"ca264e7ceaccad56ee3c18b8ff8de9592f753a292699e7c660ac19c3cf3b3de8e9":"8d03c6f6abc31182ad3e6f324e823e3b421aef78d651f5aafbf70ef14e00254ab814b4c421b1d4118bd3d2d8da6eae08303243a6c4e06919114425b37320798f865c88b9036466311d79e3e342076837474e3c7ef96336ed7777057080c7d72b4d3448a4cd754d0f0f3ec45879pa183a2ed2bace50a2a4de417d3041b09743057":"50d41e22c965b3ed36f4d117167f3a7103a20da69666680c4354377e6216d7161d1f6e9c95122da5b8f58b32d2a47b831dcd6db08d41e22c965b3e43693d072869601f76c3f51a36d08a95b9130b6af7a2f403fa432ece68b7de06c13797ebab5a43823b76762651b4e707ddc3201eb365463862425cb011a":"32010dfb":"FAIL":0

------ ENCRYPTED PRIVATE KEY ------
MIIFCzA9BqgkqhiG9w0BBQ0wMDAbBqgkqhiG9w0BBQwwDgQIE+lx5z79hVACaggA
MEBGBESOSAwAHHBpWP/2Ir7cwSCBMgUkn4fZG3jibt8TZShsbKxxq9b91D1Ur6
8F8BMFkSiRowaXzyM2f1v1xUeKlHwiprOTYO42py0Df2qd8n8ile+A+8V2GLpYGrCl
ifWGbD/tcEt02jVgWT01q2PiUErWTTUPuA5RsKBjFMjGM5V5c58fnTQzTAaFAxFmL
VNmKqCC6AKCmbhI0cJqGBtIRGqV8oOWCC+jA5JKnDt6PbVJzIqRfR1989iGSlj
0N0Wqjp3VAYV98BeATZajbocWBABDNsDrRjhgx7EZeV8C6npNK76XZEjXwc12cZeKJsJuZqZ7BklgZJxflxztZbQfjMrdDzZX9PICYkP6D8W87EqjGK9yxoieFioom
0/ed7AvZ3rxbpUUhUjUYDLNaXTkSfYHlz0B3eCEL8VoofUaiK+66N/0TismNDR
4KSJluRauxW1fjW1oh5B18znv2jk2czcpwISf58d7UeOny3/3ZRB871EoaExO4r21e
BrG6f69VewuUg1DHSYLLJErVctNNVHXu0TeEpjTr0vdtTUg2DUv4/YFcpEDk5qj
xJsbQbgfT5wS5Y3GTtvRljWqGKyoO4sae2eUc4F7ztP0ky38JHLKqQRQhe6xseT
LcIpBJ3x3g7uYHiMIXOLcPJuEMakRwpWLRbOvezX9oW0weE/dFrZzeYk02JKDI
TiiFtLF6DLuQucYJeB1M+wbs0s0f5ndXThVYi2/j73z0dwCl1WwKzH/WODTJYKxi
0o0/7pHfaPdmRymwCktTwQhYq incontroCHeFeUQ4JKDzygKdU7XLPnh4y0OiJd
yAaoXb+ijyUaG5SXTBT800OGQ2h6VFOYAQsflQonxVqVUypYhZBSsD78Vq
lHXXp95aAhpUQK4mlLjxqjxUIG7Zb/XqbbWNNV7mTtnkBqG6B1/Vjyk9K0C4KL
/JMnEZD+S5n+5q5s6f7hYOTV+Hqmn041M58cc3IDq4MufLM/RWvuKylB3s3n0eC
D+uUiTedxrl8m6InouZ49dRprRec0afP0to+DhbrDvYqH19kaFNT76SrDbSNUO
wizGBgN4u9PzbqATAX95y+Q3CFLe/wcMCLeLHJ3tRuc017Fw+ApMrAsyBiYd
9ulUc5WczAw3pEdTpN+0832U0yj1wplYVDU5LJ5gw0v4bW41o2SW7fca7/QxT94p
Base test mpi_read_write_string #1
mpi_read_write_string:10:"128":10:"128":100:0:0

Base test mpi_read_write_string #2
mpi_read_write_string:16:"80":16:"80":100:0:0

Base test mpi_read_write_string #3 (Read zero)
mpi_read_write_string:16:"0":16:"0":100:0:0

Base test mpi_read_write_string #3 (Negative decimal)
mpi_read_write_string:16:"-23":16:"-23":100:0:0

Base test mpi_read_write_string #3 (Negative hex)
mpi_read_write_string:16:"-23":16:"-23":4:0:0

Base test mpi_read_write_string #4 (Buffer too small)
mpi_read_write_string:16:"-23":16:"-23":3:0:POLARSSL_ERR_MPI_BUFFER_TOO_SMALL
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Test mpi_read_write_string #5 (Illegal output radix)
mpi_read_write_string:16:-23:17:-23:-4:0:POLARSSL_ERR(MPI_BAD_INPUT_DATA)

Test mpi_read_write_string #6 (Output radix of 15)
mpi_read_write_string:10:29:15:1e:0:0:0

Test mpi_read_write_string #7
mpi_read_write_string:10:56125680981752282334141896320372489490613963693556392520816017892111350641116976827054983195120490405166988278292920768080694087397497958452707348101263601635391346237655555672001983118736499358790195275730783089653167872771792":16:0941379d00fed1491fe15df284dfde4a142f68aa8d412023195cee66883e6290ffe703f4ea5963bfedcd955adac418bf4918e2889af48e1099d513830cece85c26ac1e158b52620e33ba8692f893efbb2f958b4424":200:0:0

Base test mpi_read_binary #1
mpi_read_binary:0941379d00fed1491fe15df284dfde4a142f68aa8d412023195cee66883e6290ffe703f4ea5963bfedcd955adac418bf4918e2889af48e1099d513830cece85c26ac1e158b52620e33ba8692f893efbb2f958b4424":10:56125680981752282334141896320372489490613963693556392520816017892111350641116976827054983195120490405166988278292920768080694087397497958452707348101263601635391346237675555672001983118736499358790195275730783089653167872771792

Base test mpi_read_binary #1
mpi_read_binary:56125680981752282334141896320372489490613963693556392520816017892111350641116976827054983195120490405166988278292920768080694087397497958452707348101263601635391346237675555672001983118736499358790195275730783089653167872771792":0941379d00fed1491fe15df284dfde4a142f68aa8d412023195cee66883e6290ffe703f4ea5963bfedcd955adac418bf4918e2889af48e1099d513830cece85c26ac1e158b52620e33ba8692f893efbb2f958b4424":200:0:0

Test mpi_write_binary #1 (Buffer just fits)
mpi_write_binary:16:123123123123123123123123123123123123:14:0

Test mpi_write_binary #2 (Buffer too small)
mpi_write_binary:16:123123123123123123123123123123123123:13:POLARSSL_ERR(MPI_BUFFER_TOO_SMALL)

Base test mpi_read_file #1
depends_on:POLARSSL_FS_IO
mpi_read_file:10:"data_files/mpi_10":"01f55332c3a48b910f9942f6c914e58bef37a47ee45cb164a5b6b8d1006bf59a059c2144993ebebdf157d21dbace88010d7b1f141e997bd6801daeced9d05910f4f2de2b2e4d714e2c1a72f717aa428d59c531627f09":0

Test mpi_read_file #1 (Empty file)
depends_on:POLARSSL_FS_IO
mpi_read_file:10:"data_files/hash_file_4":"":POLARSSL_ERR(MPI_FILE_IO_ERROR)

Test mpi_read_file #2 (Illegal input)
depends_on:POLARSSL_FS_IO
mpi_read_file:10:"data_files/hash_file_3":":":0
Test mpi_read_file #3 (Input too big)
depends_on:POLARSSL_FS_IO
mpi_read_file:10:"data_files/mpi_too_big":"POLARSSL_ERR_MPI_BUFFER_TOO_SMALL

Base test mpi_write_file #1
depends_on:POLARSSL_FS_IO
mpi_write_file:10:"56125680981752282334141896320372489490613963693556392520816017892111350604111
69768207505498319512049040516698827829292076808006940873974979584527073481012636016353913462376
755556720019831187364993587901952757307830896531678727717924":16:"data_files/mpi_write":0

Base test mpi_lsb #1
mpi_lsb:10:"56125680981752282334141896320372489490613963693556392520816017892111350604111
69768207505498319512049040516698827829292076808006940873974979584527073481012636016353913462376
720019831187364993587901952757307830896531678727717924":2

Base test mpi_lsb #2
mpi_lsb:10:"24":3

Base test mpi_lsb #3
mpi_lsb:16:"24":2

Base test mpi_lsb #4
mpi_lsb:16:"2000":13

Base test mpi_msb #1
mpi_msb:10:"56125680981752282334141896320372489490613963693556392520816017892111350604111
69768207505498319512049040516698827829292076808006940873974979584527073481012636016353913462376
720019831187364993587901952757307830896531678727717924":764

Base test mpi_msb #2
mpi_msb:10:"24":5

Base test mpi_msb #3
mpi_msb:10:"1":1

Base test mpi_msb #4
mpi_msb:10:"15":4

Base test mpi_msb #5
mpi_msb:10:"16":5

Base test mpi_msb #6
mpi_msb:10:"10":4

Base test mpi_msb #7
mpi_msb:10:"0":0
Base test mpi_cmp_int #1
mpi_cmp_int:693:693:0

Base test mpi_cmp_int #2
mpi_cmp_int:693:692:1

Base test mpi_cmp_int #3
mpi_cmp_int:693:694:-1

Base test mpi_cmp_int (Negative values) #1
mpi_cmp_int:-2:-2:0

Base test mpi_cmp_int (Negative values) #2
mpi_cmp_int:-2:-3:1

Base test mpi_cmp_int (Negative values) #3
mpi_cmp_int:-2:-1:-1

Base test mpi_cmp_mpi #1
mpi_cmp_mpi:10:"693":10:"693":0

Base test mpi_cmp_mpi #2
mpi_cmp_mpi:10:"693":10:"692":1

Base test mpi_cmp_mpi #3
mpi_cmp_mpi:10:"693":10:"694":-1

Base test mpi_cmp_mpi (Negative values) #1
mpi_cmp_mpi:10:"-2":10:"-2":0

Base test mpi_cmp_mpi (Negative values) #2
mpi_cmp_mpi:10:"-2":10:"-3":1

Base test mpi_cmp_mpi (Negative values) #3
mpi_cmp_mpi:10:"-2":10:"-1":-1

Base test mpi_cmp_mpi (Mixed values) #4
mpi_cmp_mpi:10:"-3":10:"2":-1

Base test mpi_cmp_mpi (Mixed values) #5
mpi_cmp_mpi:10:"2":10:"-3":1

Base test mpi_cmp_mpi (Mixed values) #6
mpi_cmp_mpi:10:"-2":10:"31231231289798":-1

Base test mpi_cmp_abs #1
mpi_cmp_abs:10:"693":10:"693":0
Base test mpi_cmp_abs #2
mpi_cmp_abs:10:"693":10:"692":1

Base test mpi_cmp_abs #3
mpi_cmp_abs:10:"693":10:"694":-1

Base test mpi_cmp_abs (Negative values) #1
mpi_cmp_abs:10:"-2":10:"-2":0

Base test mpi_cmp_abs (Negative values) #2
mpi_cmp_abs:10:"-2":10:"-3":-1

Base test mpi_cmp_abs (Negative values) #3
mpi_cmp_abs:10:"-2":10:"-1":1

Base test mpi_cmp_abs (Zero and Zero) #4
mpi_cmp_abs:10:"0":10:"0":0

Base test mpi_cmp_abs (Mix values) #1
mpi_cmp_abs:10:"-2":10:"2":0

Base test mpi_cmp_abs (Mix values) #2
mpi_cmp_abs:10:"2":10:"-3":-1

Base test mpi_cmp_abs (Mix values) #3
mpi_cmp_abs:10:"-2":10:"1":1

Base test mpi_copy #1
mpi_copy:0:1500

Base test mpi_copy_self #1
mpi_copy_self:14

Base test mpi_swap #1
mpi_swap:0:1500

Base test mpi_add_abs #1
mpi_add_abs:10:"12345678":10:"642531":10:"12988209"

Base test mpi_add_abs #2
mpi_add_abs:10:"-12345678":10:"642531":10:"12988209"

Base test mpi_add_abs #3
mpi_add_abs:10:"12345678":10:"-642531":10:"12988209"

Base test mpi_add_abs #4
mpi_add_abs:10:"-12345678":10:"-642531":10:"12988209"
Test mpi_add_abs #1
mpi_add_abs:10:"
64380800683554392320129854961492699151386107534013432918073439524138264842370630061369715394
739134090922937332590384720397133335969549525632262097903686633213903952966175107096769180017
646161851573147596390153":10:"561256809817522832334980838313568935051383833859489982166463178
457733717119362242381136005466967841045532911243455294271708400354138459486412994014504308676
003129248334006892350611587822118988649113272739661669044958531131327771":10:"561256809817522
823341418963203724894096139636935563925208160178921113506041116976827054983195120490405166988
27829220768006940873974979584527073481012636016353913462376755567200198311873649935879019
527573073089651678727717924"

Test mpi_add_abs #2 (add to first value)
mpi_add_abs_add_first:10:"123123":10:"123123":10:"246246"

Test mpi_add_abs #3 (add to second value)
mpi_add_abs_add_second:10:"123123":10:"123123":10:"246246"

Regression mpi_add_abs (add small to very large MPI with carry rollover)
mpi_add_abs:16:"FFFFFFFFFFFFFFFFFFFFFFFFFFFFF8":16:"08":16:"10000000000000000000000000000000"

Regression mpi_add_abs (add small to very large MPI with carry rollover)
mpi_add_abs:16:"08":16:"FFFFFFFFFFFFFFFFFFFFFFFFFFFFF8":16:"10000000000000000000000000000000"

Base test mpi_add_mpi #1
mpi_add_mpi:10:"12345678":10:"642531":10:"12988209"

Base test mpi_add_mpi #2
mpi_add_mpi:10:"-12345678":10:"642531":10:"-11703147"

Base test mpi_add_mpi #3
mpi_add_mpi:10:"12345678":10:"-642531":10:"11703147"

Base test mpi_add_mpi #4
mpi_add_mpi:10:"-12345678":10:"-642531":10:"-12988209"

Test mpi_add_mpi #1
mpi_add_mpi:10:"20395687835640197740576576869290345772801939933143482630977246453283062722701
277632936616063144088173312372882677123879538709400158306567338328279154499689366071906766440
03707421711780569087279284814911202228632144876183376326512083574821647933992961249917319836
219304274280243803104015000563790123":10:"5318728890542041841508473437513333994803306139821308
566452994694309521786060458488771291478203879964281755642282042785846142107532462936393841394
12401975387057946465954873243651947928221894730922739935805879645716596780844841526038810941
769955948133022843232006017521281689012935600518333646881436219":10:"7358292167410606161590850606
13041679766884976072964791197007211138423524132874712651005676388353208461048793711088190972
5679916932621242907172467691556475037070186655336192736143941911062788034588512214269261025909
3804554267860479115964668998643528806235341493258379714324318153736315584864744526342"

Test mpi_add_mpi #2
Test mpi_add_int #1
mpi_add_int:10:"2039568783564019774057658669290345772801939933143482630947726464532830627227012776329":9871232:10:"20395687835640197740576586692903457728019399331434826309477264645328306272270226475611"

Test mpi_add_int #2
mpi_add_int:10:"2039568783564019774057658669290345772801939933143482630947726464532830627227012776329":-9871232:10:"2039568783564019774057658669290345772801939933143482630947726464532830627227002905097"

Base test mpi_sub_abs #1 (Test with larger second input)
mpi_sub_abs:10:"5":10:"7":10:"0":POLARSSL_ERR_MPI_NEGATIVE_VALUE

Base test mpi_sub_abs #2 (Test with larger second input)
mpi_sub_abs:10:"-5":10:"-7":10:"0":POLARSSL_ERR_MPI_NEGATIVE_VALUE

Base test mpi_sub_abs #3 (Test with larger second input)
mpi_sub_abs:10:"-5":10:"7":10:"0":POLARSSL_ERR_MPI_NEGATIVE_VALUE

Base test mpi_sub_abs #4 (Test with larger second input)
mpi_sub_abs:10:"5":10:"-7":10:"0":POLARSSL_ERR_MPI_NEGATIVE_VALUE

Base test mpi_sub_abs #1
mpi_sub_abs:10:"7":10:"5":10:"2":0

Base test mpi_sub_abs #2
mpi_sub_abs:10:"-7":10:"-5":10:"2":0

Base test mpi_sub_abs #3
mpi_sub_abs:10:"-7":10:"5":10:"2":0

Base test mpi_sub_abs #4
mpi_sub_abs:10:"7":10:"-5":10:"2":0

Test mpi_sub_abs #1
mpi_sub_abs:16:"FFFFFFFFFFFFF":16:"01":16:"FFFFFFFFFE":0

Test mpi_sub_abs #2
mpi_sub_abs:16:"FFFFFFFFF0":16:"01":16:"FFFFFFFFEF":0

Test mpi_sub_abs #3
mpi_sub_abs:16:"FF00000000":16:"0F00000000":16:"FFFFFFFFEF":0

Test mpi_sub_abs #4
mpi_sub_abs:16:"FF00000000":16:"0F00000000":16:"FFFFFFFFEF":0

Base test mpi_sub_mpi #1 (Test with negative result)
mpi_sub_mpi:10:"5":10:"7":10:"-2"

Base test mpi_sub_mpi #2 (Test with negative inputs)
mpi_sub_mpi:10:"-5":10:"-7":10:"2"

Base test mpi_sub_mpi #3 (Test with negative base)
mpi_sub_mpi:10:"-5":10:"7":10:"-12"

Base test mpi_sub_mpi #4 (Test with negative substraction)
mpi_sub_mpi:10:"5":10:"-7":10:"12"

Test mpi_sub_mpi #1
mpi_sub_mpi:10:"5318722890542041841850847343751333994083063198210385664529946939052178606045 8488771291478208379964281755642282047858461420170532462936399834139412401975338705794646595487 3243651947922822189473092273993580587964571659678084484152603881094176995594813302284232006001 752128168901293560051833646881436219":10:"2039568783564019774057658669290345772801939933143482 6309477264464532830627272017277632966160631440881731312372826771238795387094001583065673383282 79154499683660719066764400370742171178056908727928481491120222863321448671833763265120835748 216479339926124991731986321930427428043803104015000563790123":10:"327915410690782020677931882 744609882212810962066778259355052681847766911588334457124419253175724390825486319134552766196 6602498132304629772495811133247756403397227398290472872909776501649860029942584446856576823 951480190110782609179751953553476660820341034168616553282389482104975694781846361764660696\n  
Test mpi_sub_mpi #2 (Test for negative result)
mpi_sub_mpi:10:"6438080068035544392301298546916419269991513861078534013432918073439524138264842370 630016397153947391340909229373325903847203971333359659549256326209790366863362193093952966175 107096769180017646161851573147596390153":10:"561256809817522282333498088313568939350513838383859 48998216646317845773371711936242431813600546696784104553299112434552942717084003543143854948659 99041450430386760031292483340068923506115878221189886491132772739661669044958351131327771":10:"-56125680981752228323285428030607653806121537039836340712251324567704332378275550836572217898 2730778039395937039818308626116066208794210143732806890735370376871504033822902922119252 55014779349363592722015507193385383534937618"

Test mpi_sub_int #1
mpi_sub_int:10:"2039568783564019774057658669290345772801939933143482630947726464532830627227012 776329": -9871232:10:"2039568783564019774057658669290345772801939933143482630947726464532830627227022647 561"
Test mpi_sub_int #2
mpi_sub_int:10:"2039568783564019774057658669290345772801939933143482630947726464532830627227012776329":9871232:10:"2039568783564019774057658669290345772801939933143482630947726464532830627227002905097"

Test mpi_shift_l #1
mpi_shift_l:10:"64":1:10:"128"

Test mpi_shift_l #2
mpi_shift_l:10:"65838554691173355016451608840523896146188025602983459883197203946942175511781801365349481443893195731640311168918769144694140678868690989839298740803321951174653444344350008880118042764943201875870917468833709791733282363323948005998269792207":37:10:"904878205486390206919223046197230763054009616101198848727231906786428041683236785668613453186564306698301724984628645025127236436565022750900439437595355052945035915579216557330505438734955534052614547698825017118140496671828925974337883640981192704"

Test mpi_shift_r #1
mpi_shift_r:10:"128":1:10:"64"

Test mpi_shift_r #2
mpi_shift_r:10:"12081557097970148470490697700760567182871429114712069861589084706550626575967516787438008593490722779337547394120718248995900363299470250633688255953920843031921668888911722263315583846485047056355241515415159736436403445579777425189969":45:10:"34337850530534264153432950763760961530940514056371759426607776704983799213541577952195782641379856490496816512260299034834332690937215780042872916783249822978609477300121270128349628999378309630601971640587504883789518896817457"
Open Source Used In HyperFlex HX Data Platform 5.0(1a) 16892

Test mpi_mul_mpi #1
mpi_mul_mpi:10:"28911710107320205966167820725313234361535259163045867986277478145081076845846493521348693255300112439881601480634248378959719482416678672391950696231218588991148829934789476574723514613363726941485069323635424692930278889823450065464658834909442651478510368174339709847477393020522259537":10:"16471581891701794764704000971905734996270392448899345225688129750372405809992471271353696674856874718037591163433135557737694529887151020683280106262261643463228807407669366029922622214153856081433882449642265377822759768011406757061063524768140567867350208544393423204105513416751119078050953":10:"47622156991974248876695158292312236393394213568191658452450429321038344633239412487064053757234829125351923638451161542364651841475999678412734248914100027819679621862525833111157081281671712622069195154878998835472796470259528375163246496569135804116112973126789558018999369375774768196678610530643290607131572794882627609254579342005962781562403795455162483159362582582124826500544171508197800335757811588045997545478368259771691258663241284496998770767621367681278160745877667679901862617619977618849008710386916412290679144040101822594139648973454716256383294690817576188761"

Test mpi_mul_int #1
mpi_mul_int:10:"20395687835640197740576568669290345772801939933143482630947726464532830627227012776329":9871232:10:"20133056641518226042310730101376278483547239130123806338055387803943342738063359782107667328":==

Test mpi_mul_int #2 (Unsigned, thus failure)
mpi_mul_int:10:"20395687835640197740576568669290345772801939933143482630947726464532830627227012776329":9871232:10:"-20133056642518226042310730101376278483547239130123806338055387803943342738063359782107667328":!=

Test mpi_mul_int #3
mpi_mul_int:10:"-20395687835640197740576568669290345772801939933143482630947726464532830627227012776329":9871232:10:"-20133056642518226042310730101376278483547239130123806338055387803943342738063359782107667328":==

Test mpi_mul_int #4 (Unsigned, thus failure)
mpi_mul_int:10:"-20395687835640197740576568669290345772801939933143482630947726464532830627227012776329":9871232:10:"-20133056642518226042310730101376278483547239130123806338055387803943342738063359782107667328":!=

Base test mpi_div_mpi #1
mpi_div_mpi:10:"1000":10:"13":10:"76":10:"12":0

Base test mpi_div_mpi #2 (Divide by zero)
mpi_div_mpi:10:"1000":10:"0":10:"1":10:"1":POLARSSL_ERR_MPI_DIVISION_BY_ZERO
Base test mpi_div_mpi #3
mpi_div_mpi:10:"1000":10:"-13":10:"-76":10:"12":0

Test mpi_div_mpi #1
mpi_div_mpi:10:"20133056642518226042310730101376278483547239130123806338055387803943342738063359782107676328":10:"34":10:"59214872477994782477384500298165524951609526853305312758986434717480419817833411238464083":10:"26":0

Test mpi_div_mpi #2
mpi_div_mpi:10:"476221599179424887669515892923122363939342135681791605842540429321038144633323941248706405375723482912535192363845116154236465184147599679841273424891400027819676921686252583311115708128617112622606919514587899883547279647025952837516324649656913580411611297312678955801899536937577476819667861053063432906071315727948826760925457394320059627815624037954551624831593625828128426500544171508019780033575787158804595975454783628597716125866324128449699877076762316768127816074587766790018626179199776188499081038691614229067911440101822594139648973454716256383294690817576188762":10:"289117100173202059661678207253132343615352591630458679862774871450817068458464935213486932535300112439881601480634248378959719482441678672369239195069623121858299144829934789476574723514631367296414850693236354292993278888923450006546658834909442651478510368174339709847743302052259537":10:"16471581891701799179476470400971905734999627023994899345226881297503724058606992471271536669748658741780735931633315557377694523887151206832810626216434632880740766963660299262214153835608143388284494622653778227597680114067570610635247681405678673502085544393432320410551341675119078050953":10:"1":0

Test mpi_div_mpi #3
mpi_div_mpi:10:"1000":10:"7":10:"142":10:"6":0

Test mpi_div_mpi #4
mpi_div_mpi:10:"777":10:"7":10:"111":10:"0":0

Base test mpi_div_int #1
mpi_div_int:10:"1000":13:"76":10:"12":0

Test mpi_div_int #2 (Divide by zero)
mpi_div_int:10:"1000":0:"1":10:"1":POLARSSL_ERR_MPI_DIVISION_BY_ZERO

Base test mpi_div_int #3
mpi_div_int:10:"1000":-13:"-76":10:"12":0

Test mpi_div_int #1
mpi_div_int:10:"20133056642518226042310730101376278483547239130123806338055387803943342738063359782107676328":34:"10:"59214872477994782477384500298165524951609526853305312758986434717480419817833411238464083":10:"26":0

Test mpi_div_int #2
mpi_div_int:10:"20133056642518226042310730101376278483547239130123806338055387803943342738063359782107676328":34:"10:"59214872477994782477384500298165524951609526853305312758986434717480419817833411238464083":10:"26":0
Base test mpi_mod_mpi #1
mpi_mod_mpi:10:"1000":10:"13":10:"12":0

Base test mpi_mod_mpi #2 (Divide by zero)
mpi_mod_mpi:10:"1000":10:"0":10:"0":POLARSSL_ERR_MPI_DIVISION_BY_ZERO

Base test mpi_mod_mpi #3
mpi_mod_mpi:10:"-1000":10:"13":10:"1":0

Base test mpi_mod_mpi #4 (Negative modulo)
mpi_mod_mpi:10:"1000":10:"-13":10:"-1":POLARSSL_ERR_MPI_NEGATIVE_VALUE

Base test mpi_mod_mpi #5 (Negative modulo)
mpi_mod_mpi:10:"-1000":10:"-13":10:"-12":POLARSSL_ERR_MPI_NEGATIVE_VALUE

Base test mpi_mod_int #1
mpi_mod_int:10:"1000":13:12:0

Base test mpi_mod_int #2 (Divide by zero)
mpi_mod_int:10:"1000":0:0:POLARSSL_ERR_MPI_DIVISION_BY_ZERO

Base test mpi_mod_int #3
mpi_mod_int:10:"-1000":13:1:0

Base test mpi_mod_int #4 (Negative modulo)
mpi_mod_int:10:"1000":-13:0:POLARSSL_ERR_MPI_NEGATIVE_VALUE

Base test mpi_mod_int #5 (Negative modulo)
mpi_mod_int:10:"-1000":-13:0:POLARSSL_ERR_MPI_NEGATIVE_VALUE

Base test mpi_mod_int #6 (By 1)
mpi_mod_int:10:"1000":1:0:0

Base test mpi_mod_int #7 (By 2)
mpi_mod_int:10:"1001":2:1:0

Base test mpi_mod_int #8 (By 2)
mpi_mod_int:10:"1000":2:0:0

Base test mpi_exp_mod #1
mpi_exp_mod:10:"23":10:"13":10:"29":10:"24":0

Base test mpi_exp_mod #2 (Even N)
mpi_exp_mod:10:"23":10:"13":10:"30":10:"0":POLARSSL_ERR_MPI_BAD_INPUT_DATA

Base test mpi_exp_mod #3 (Negative N)
mpi_exp_mod:10:"23":10:"13":10:"-29":10:"0":POLARSSL_ERR_MPI_BAD_INPUT_DATA
Base test mpi_exp_mod #4 (Negative base)
mpi_exp_mod:10:"-23":10:"13":10:"29":10:"":10:"5":0

Base test mpi_exp_mod #5 (Negative exponent)
mpi_exp_mod:10:"23":10:"-13":10:"29":10:"":10:"0":POLARSSL_ERR_MPI_BAD_INPUT_DATA

Base test mpi_exp_mod #7 (Negative base + exponent)
mpi_exp_mod:10:"-23":10:"-13":10:"29":10:"":10:"0":POLARSSL_ERR_MPI_BAD_INPUT_DATA

Test mpi_exp_mod #1
mpi_exp_mod:10:"4330192409103774782173735729595601098196486470106965605237690108811172869083338
2855737565745573958629650950164838678113043663981946774698466560145183240759232735633126312455
537732393982422882782144928753919588632679050799919893713292214508484":10:"57815383279778828897
150909166778407659250458379658458230620404249265157675852675749091007362800861397975505463827274775
570888130029763571528695974717583228395359602344642308825736159303849971003791029151657483866
755371559811718167760594919456971354184113721":10:"5831370077972769293568912162160221440520440
913113880166256296149557516421612874571554451560647467932687688909910493444592014998882549071134957
94730452699842237935981048142004834330369483813876618772578869083248061644439209169137870396
3631684551229212709786565026290173004860736":0

Test mpi_exp_mod (Negative base)
mpi_exp_mod:10:"-1000000000":10:"1000000000":10:"99999":10:"":10:"99998":0

Test mpi_exp_mod (Negative base)
mpi_exp_mod:10:"":16
91f130112cd92aa72fb86a8879d2fde4f7fd61aaa43a00971f018cc60ca277059d5c37e89652ea2f2585d281d6e6f69d3
3a8117e99608e9c7574cd142dc5527883a2161dd56db94970d4c1d2d5fd15a908ee2eb86aaa890f23be16de59386663
a12f1a9bb325431a3e8353f3d89b98b6a7f77382f58fe9a31e8f8a403045c8676aba55291a94ce2228ea15448ee96b626
b998":16:"40a45d1d9e86789f06d9607fb158672d64867665c73ee9abb545fca7a785634b354c8eab5e6208040cf45f2
e1fd3659b2ec5ede715734c8fc2e8c58e15ec8df1fe7048d12e90ec31b8e6a081f17f0d0e16303521e940083bcea73
4a29031d4ca7949c20005d97080ec393a60144bfb962b73bb2e8083bd0390a4e00b9b3":16:"eeaf0ab9adb33d6c93f
80afa8fc5e86072617775f3fc0b9aa23149c925567576d7477f46ea81d3383b483d692ce00d5de250b98be48e495c
1d6089daf15d7b46154d6bce8ef4ad69b15d498559297bce1885c52956660e57ce68edbc3c0572620d4fcbf
4976eaa9afde5138fe8376435b9fc61d2f0eb06e3":16:"21acc7199e1b090f9b4844f6e12c1f00ee54c85d32b21c6
474d4bf6015d8eb99ec9db05bf43d444d4b227a2b5659c1a7ecee9d9f8af6a0376047953ce7397d90aeeb74651e4e820734
f84aa52ad0fc66701cbcb991d57715806a11531268e1e83dd48288c72b424a62879e9e4e5cc4db0dd67614aeecc23b012
4a5776d363e5c89483":0

Base test GCD #1
mpi_gcd:10:"693":10:"609":10:"21"

Base test GCD #2
mpi_gcd:10:"1764":10:"868":10:"28"
Base test GCD #3
mpi_gcd:10:"768454923":10:"542167814":10:"1"

Test GCD #1
mpi_gcd:10:"43301924091037748721737357295956010981964864701606956052376901088117286908333828557 375657455735986296509501648838678130436639819464776984665014518324075923273563312631245551377 32393982422857821449287539195868632679050799198937132922145084847":10:"5781538327977828897150909166778407659250458379645823062042492461576758267574909100736280086139777550546382774775570881300927635715286995747175832289395359602344642308825373615930384979100379102915657483866755371559811718767760594919456971354184113721":10:"1"

Base test mpi_inv_mod #1
depends_on:POLARSSL_GENPRIME
mpi_inv_mod:10:"3":10:"11":10:"4":0

Base test mpi_inv_mod #2
depends_on:POLARSSL_GENPRIME
mpi_inv_mod:10:"3":10:"0":10:"0":POLARSSL_ERR_MPI_BAD_INPUT_DATA

Base test mpi_inv_mod #3
depends_on:POLARSSL_GENPRIME
mpi_inv_mod:10:"3":10:"-11":10:"4":POLARSSL_ERR_MPI_BAD_INPUT_DATA

Base test mpi_inv_mod #4
depends_on:POLARSSL_GENPRIME
mpi_inv_mod:10:"2":10:"4":10:"0":POLARSSL_ERR_MPI_NOT_ACCEPTABLE

Test mpi_inv_mod #1
depends_on:POLARSSL_GENPRIME
mpi_inv_mod:16:"aa4df5cb14b4c31237f98bd1fa5f27c283c2df3eecc89718664933f9762907c":16:"fffbd660b94412ae61ead9c2906a344116e7316a256fd387874c6c675b1d587d":16:"8d6e5c1d7adeae3e94b9bcd2c47e0d46e778bc8804a2cc25e0d775d3d05b0c":0

Base test mpi_is_prime #1
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"0":POLARSSL_ERR_MPI_NOT_ACCEPTABLE

Base test mpi_is_prime #2
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"1":POLARSSL_ERR_MPI_NOT_ACCEPTABLE

Base test mpi_is_prime #3
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"2":0

Base test mpi_is_prime #4
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"3":0
Base test mpi_is_prime #5
depends_on: POLARSSL_GENPRIME
mpi_is_prime: 10: "4": POLARSSL_ERR_MPI_NOT_ACCEPTABLE

Base test mpi_is_prime #6
depends_on: POLARSSL_GENPRIME
mpi_is_prime: 10: "5": 0

Base test mpi_is_prime #7
depends_on: POLARSSL_GENPRIME
mpi_is_prime: 10: "27": POLARSSL_ERR_MPI_NOT_ACCEPTABLE

Base test mpi_is_prime #8
depends_on: POLARSSL_GENPRIME
mpi_is_prime: 10: "47": 0

Test mpi_is_prime #1
depends_on: POLARSSL_GENPRIME
mpi_is_prime: 10: "82713150722165456393783268669620095595835694437983658840870036586124168186967 796809117749047430768825822857042432722828096779098498192459819306321073968735177531164565305 635281198148032612029767584644305912099": 0

Test mpi_is_prime #2
depends_on: POLARSSL_GENPRIME
mpi_is_prime: 10: "82713150722165456393783268669620095595835694437983658840870036586124168186967 796809117749047430768825822857042432722828096779098498192459819306321073968735177531164565305 635281198148032612029767584644305912001": POLARSSL_ERR_MPI_NOT_ACCEPTABLE

Test mpi_is_prime #3
depends_on: POLARSSL_GENPRIME
mpi_is_prime: 10: "2833419889721787128217599": 0

Test mpi_is_prime #4
depends_on: POLARSSL_GENPRIME
mpi_is_prime: 10: "195845982777569926302400511": 0

Test mpi_is_prime #5
depends_on: POLARSSL_GENPRIME
mpi_is_prime: 10: "4776913109852041418248056622882488319": 0

Test mpi_is_prime #5
depends_on: POLARSSL_GENPRIME
mpi_is_prime: 10: "768614336404564651": 0

Test mpi_is_prime #6
depends_on: POLARSSL_GENPRIME
mpi_is_prime: 10: "201487636602438195784363": 0
Test mpi_is_prime #7
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"845100400152152934331135470251":0

Test mpi_is_prime #8
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"56713727820156410577229101238628035243":0

Test mpi_is_prime #9
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"203956878365401977405765866929034577280193993314348263094772646453283062722701
27763293661606314408817331237282677123879538709400158306567338328279154499698366071906766440
0370742171178056908727928481491120222863321448761833763262512083574821647933992961249917319836
219304274820243803104015000563790123":0

Test mpi_is_prime #10
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"531872289054204184185084734375133399408303613982130856645299469390952178606045
84887712914782038799642817556242982047858641412075324629363398343139412401975338705794646595487
3243651947922822189473092273993580587964571659678084484152603881094176995594813302284232006001
752128168901293560051833646881436219":0

Test mpi_is_prime #11
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"319705304701141539155720137200974666466679252605940579253689074929469783512821
7939956131789431717273675238853752439032838598158629038528214925658918372196742089464683960239
919950823558447660553655179937610326127675178857306260955550407044463370239890187189750909036
833976197804646589380690779463976173":0

Test mpi_is_prime #12
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"200603822195324642393516294012917598972967449320074999667103434371470616000652
036570009912021332527788252300901905236578801044680456930355350440933538867383130165841118050
781326291059830545891570648243241795871":0

Test mpi_is_prime #13
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"827131507221615456393783268669620099559583569443798365884087036586124168186967
79680911774904730768825282857042432722828096779098498192459819306321073968735177531164565305
635281198148032612029767584644305912099":0

Test mpi_is_prime #14
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"9642740472484187971450909831571979808550789668227649257288532954904112655338
439361306213898569516593744267391754033036465125919199692703323878557833023573312685002670662
84647759257659826113460619815244721311":0
Test mpi_is_prime #15
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"170141183460469231731687303715884105727":0

Test mpi_is_prime #16
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"2147483647":0

Test mpi_is_prime #17
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"961748941":0

Test mpi_is_prime #18
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"179424691":0

Test mpi_is_prime #19
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"32452867":0

Test mpi_is_prime #20
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"49979687":0

Test bit getting (Value bit 25)
mpi_get_bit:10:"49979687":25:1

Test bit getting (Larger but same limb)
mpi_get_bit:10:"49979687":26:0

Test bit getting (Larger and non-existing limb)
mpi_get_bit:10:"49979687":500:0

Test bit getting (Value bit 24)
mpi_get_bit:10:"49979687":24:0

Test bit getting (Value bit 23)
mpi_get_bit:10:"49979687":23:1

Test bit set (Change existing value with a 1)
mpi_set_bit:10:"49979687":24:1:10:"66756903"

Test bit set (Change existing value with a 0)
mpi_set_bit:10:"49979687":25:0:10:"16425255"

Test bit set (Add above existing limbs with a 0)
mpi_set_bit:10:"49979687":80:0:10:"49979687"
Open Source Used In HyperFlex HX Data Platform 5.0(1a) 16900

Test bit set (Add above existing limbs with a 1)
mpi_set_bit:10::49979687::80:1:10::1208925819614629224685863

MPI Selftest
depends_on:POLARSSL_SELF_TEST
mpi_selftest:

<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" ToolsVersion="4.0"
xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
<ItemGroup Label="ProjectConfigurations">
  <ProjectConfiguration Include="Debug|Win32">
    <Configuration>Debug</Configuration>
    <Platform>Win32</Platform>
  </ProjectConfiguration>
  <ProjectConfiguration Include="Debug|x64">
    <Configuration>Debug</Configuration>
    <Platform>x64</Platform>
  </ProjectConfiguration>
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    <Platform>Win32</Platform>
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  <ProjectConfiguration Include="Release|x64">
    <Configuration>Release</Configuration>
    <Platform>x64</Platform>
  </ProjectConfiguration>
</ItemGroup>
<ItemGroup>
  <ClCompile Include="..\..\programs\ssl\ssl_client2.c" />
</ItemGroup>
<ItemGroup>
  <ProjectReference Include="PolarSSL.vcxproj">
    <Project>{46cf2d25-6a36-4189-b59c-e4815388e554}</Project>
  </ProjectReference>
</ItemGroup>
<PropertyGroup Label="Globals">
  <ProjectGuid>{6418ABBB-6D56-4D26-A7E8-69A47B61F7EB}</ProjectGuid>
  <Keyword>Win32Proj</Keyword>
  <RootNamespace>ssl_client2</RootNamespace>
</PropertyGroup>
<Import Project="$(VCTargetsPath)Microsoft.Cpp.Default.props" />
<UseDebugLibraries>true</UseDebugLibraries>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Release|Win32" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>false</UseDebugLibraries>
<WholeProgramOptimization>true</WholeProgramOptimization>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Release|x64" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>false</UseDebugLibraries>
<WholeProgramOptimization>true</WholeProgramOptimization>
<CharacterSet>Unicode</CharacterSet>
<PlatformToolset>Windows7.1SDK</PlatformToolset>
</PropertyGroup>

<Import Project="$(VCTargetsPath)\Microsoft.Cpp.props" />
</ImportGroup>

<ImportGroup Label="ExtensionSettings">
</ImportGroup>

<ImportGroup Label="PropertySheets" Condition=""$(Configuration)|$(Platform)="Debug|Win32"">
</ImportGroup>

<ImportGroup Condition=""$(Configuration)|$(Platform)="Debug|x64" Label="PropertySheets">
</ImportGroup>

<ImportGroup Label="PropertySheets" Condition=""$(Configuration)|$(Platform)="Release|Win32"">
</ImportGroup>

<ImportGroup Condition=""$(Configuration)|$(Platform)="Release|x64" Label="PropertySheets">
</ImportGroup>

<ImportGroup Label="UserMacros" />

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Debug|Win32"">
<LinkIncremental>true</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Debug|x64"">
<LinkIncremental>true</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Release|Win32"">
<LinkIncremental>false</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Release|x64"">
<LinkIncremental>false</LinkIncremental>
</PropertyGroup>
DES Encrypt OpenSSL Test Vector #1
des_encrypt_ecb:"0000000000000000":"0000000000000000":"8CA64DE9C1B123A7"

DES Encrypt OpenSSL Test Vector #2
des_encrypt_ecb:"0000000000000000":"0000000000000000":"8CA64DE9C1B123A7"

DES Encrypt OpenSSL Test Vector #3
des_encrypt_ecb:"FFFFFFFFFFFFFFFF":"FFFFFFFFFFFFFFFF":"7359B2163E4EDC58"

DES Encrypt OpenSSL Test Vector #4
des_encrypt_ecb:"3000000000000000":"1000000000000001":"958E66ED2A05557B"

DES Encrypt OpenSSL Test Vector #5
des_encrypt_ecb:"1111111111111111":"1111111111111111":"F40379AB9E0EC533"

DES Encrypt OpenSSL Test Vector #6
des_encrypt_ecb:"012346789ABCD":"1111111111111111":"17668DFC7292532D"

DES Encrypt OpenSSL Test Vector #7
des_encrypt_ecb:"123456789ABCD":"1111111111111111":"8A5AE1F81AB8F2DD"

DES Encrypt OpenSSL Test Vector #8
des_encrypt_ecb:"07A1133E4A0B2686":"0248D43806F67172":"868EBB51C4599A"

DES Encrypt OpenSSL Test Vector #9
des_encrypt_ecb:"3849674C2602319E":"51455822DF440A":"7178876E01F19B2A"

DES Encrypt OpenSSL Test Vector #10
des_encrypt_ecb:"04B915BA43FEB5B6":"42FD443059577FA":"AF37FB42F8C4095"
DES Encrypt OpenSSL Test Vector #14
des_encrypt_ecb:"0113B970FD34F2CE";"059B5E0851CF143A";"86A560F10EC6D85B"

DES Encrypt OpenSSL Test Vector #15
des_encrypt_ecb:"0170F175468FB5E6";"0756D8E0774761D2";"0CD3DA020021DC09"

DES Encrypt OpenSSL Test Vector #16
des_encrypt_ecb:"43297FAD38E373FE";"762514B829BF486A";"EA676B2CB7DB2B7A"

DES Encrypt OpenSSL Test Vector #17
des_encrypt_ecb:"07A7137045DA2A16";"3BDD119049372802";"DFD64A815CAF1A0F"

DES Encrypt OpenSSL Test Vector #18
des_encrypt_ecb:"04689104C2FD3B2F";"26955F6835AF609A";"5C513C9C4886C088"

DES Encrypt OpenSSL Test Vector #19
des_encrypt_ecb:"37D06BB516CB7546";"164D5E404F275232";"0A2AEEAE3FF4AB77"

DES Encrypt OpenSSL Test Vector #20
des_encrypt_ecb:"1F08260D1AC2465E";"6B056E18759F5CCA";"EF1BF03E5DFA575A"

DES Encrypt OpenSSL Test Vector #21
des_encrypt_ecb:"584023641ABA6176";"004BD6EF09176062";"88BF0DB6D70DEE56"

DES Encrypt OpenSSL Test Vector #22
des_encrypt_ecb:"025816164629B007";"480D39006EE762F2";"A1F9915541020B56"

DES Encrypt OpenSSL Test Vector #23
des_encrypt_ecb:"49793EBC79B3258F";"437540C8698F3CFA";"6FBF1CAFCFFD0556"

DES Encrypt OpenSSL Test Vector #24
des_encrypt_ecb:"4FB05E1515AB73A7";"072D43A077075292";"2F22E49B7CA1AC"

DES Encrypt OpenSSL Test Vector #25
des_encrypt_ecb:"49E95D6D4CA229BF";"02FE55778117F12A";"5A6B612CC26CCE4A"

DES Encrypt OpenSSL Test Vector #26
des_encrypt_ecb:"018310DC409B26D6";"1D9D5C5018F728C2";"5F4C038ED12B2E41"

DES Encrypt OpenSSL Test Vector #27
des_encrypt_ecb:"1C587F1C13924FEF";"305532286D6F295A";"63FAC0D034D9F793"

DES Encrypt OpenSSL Test Vector #28
des_encrypt_ecb:"0101010101010101";"0123456789ABCDEF";"617B3A0CE8F07100"

DES Encrypt OpenSSL Test Vector #29
des_encrypt_ecb:"1F1F1F1F0E0E0E0E";"0123456789ABCDEF";"DB958605F8C8C606"
DES Encrypt OpenSSL Test Vector #30
\texttt{des_encrypt_ecb:"E0FEE0FEF1FEF1FE":"0123456789ABCDEF":"EDBFD1C66C29CCC7"}

DES Encrypt OpenSSL Test Vector #31
\texttt{des_encrypt_ecb:"0000000000000000":"FFFFFFFFFFFFFFF":"355550B2150E2451"}

DES Encrypt OpenSSL Test Vector #32
\texttt{des_encrypt_ecb:"FFFFFFFFFFFFFFF":"0000000000000000":"CAAAAF4DEAF1DBAE"}

DES Encrypt OpenSSL Test Vector #33
\texttt{des_encrypt_ecb:"0123456789ABCDEF":"0000000000000000":"D5D4FF720683D0D"}

DES Encrypt OpenSSL Test Vector #34
\texttt{des_encrypt_ecb:"FFFFFFFFFFFFFFF":"2A2BB008DF97C2F2"}

DES Decrypt OpenSSL Test Vector #1
\texttt{des_decrypt_ecb:"0000000000000000":"8CA64DE9C1B23A7":"0000000000000000"}

DES Decrypt OpenSSL Test Vector #2
\texttt{des_decrypt_ecb:"FFFFFFFFFFFFFFF":"7359B2163E4EDC58":"FFFFFFFFFFFFFFF"}

DES Decrypt OpenSSL Test Vector #3
\texttt{des_decrypt_ecb:"3000000000000000":"958E6E627A05557B":"1000000000000001"}

DES Decrypt OpenSSL Test Vector #4
\texttt{des_decrypt_ecb:"1111111111111111":"F40379AB9E0EC533":"1111111111111111"}

DES Decrypt OpenSSL Test Vector #5
\texttt{des_decrypt_ecb:"0123456789ABCDEF":"17668DFC7292532D":"1111111111111111"}

DES Decrypt OpenSSL Test Vector #6
\texttt{des_decrypt_ecb:"1111111111111111":"8A5AE1F81AB8F2DD":"0123456789ABCDEF"}

DES Decrypt OpenSSL Test Vector #7
\texttt{des_decrypt_ecb:"0000000000000000":"8CA64DE9C1B23A7":"0000000000000000"}

DES Decrypt OpenSSL Test Vector #8
\texttt{des_decrypt_ecb:"FEDCBA9876543210":"ED39D950FA74BCC4":"0123456789ABCDEF"}

DES Decrypt OpenSSL Test Vector #9
\texttt{des_decrypt_ecb:"7CA110454A1A6E57":"690F5B0D9A26939B":"01A1D6D039776742"}

DES Decrypt OpenSSL Test Vector #10
\texttt{des_decrypt_ecb:"0131D9619DC1376E":"7A389D10354BD271":"5CD54CA83DEF57DA"}

DES Decrypt OpenSSL Test Vector #11
\texttt{des_decrypt_ecb:"07A1133E4A0B2686":"868EBB51CAB4599A":"0248D43806F67172"}
DES Decrypt OpenSSL Test Vector #12
des_decrypt_ecb:"3849674C2602319E":"7178876E01F19B2A":"51454B582DDF440A"

DES Decrypt OpenSSL Test Vector #13
des_decrypt_ecb:"04B915BA43FEB5B6":"AF37FB421F8C4095":"42FD443059577FA2"

DES Decrypt OpenSSL Test Vector #14
des_decrypt_ecb:"0113B970FD34F2CE":"86A560F10EC6D85B":"059B5E0851CF143A"

DES Decrypt OpenSSL Test Vector #15
des_decrypt_ecb:"0170F175468F85E6":"0CD3DA020021DC09":"0756D8E0774761D2"

DES Decrypt OpenSSL Test Vector #16
des_decrypt_ecb:"43297FAD38E373FE":"EA676B2CB7DB2B7A":"762514B829BF486A"

DES Decrypt OpenSSL Test Vector #17
des_decrypt_ecb:"07A7137045DA2A16":"D9FD6A815CAF1A0F":"3BDD119049372802"

DES Decrypt OpenSSL Test Vector #18
des_decrypt_ecb:"04689104C2FD3B2F":"5C513C9C4886C088":"26955F6835AF609A"

DES Decrypt OpenSSL Test Vector #19
des_decrypt_ecb:"37D06BB516CB7546":"0A2AEEAE3FF4AB77":"164D5E404F275232"

DES Decrypt OpenSSL Test Vector #20
des_decrypt_ecb:"1F08260D1AC2465E":"EF1BF03E5DFA575A":"6B056E18759F5CCA"

DES Decrypt OpenSSL Test Vector #21
des_decrypt_ecb:"584023641ABA6176":"88BF0DB6D70DEE56":"004BD6EF09176062"

DES Decrypt OpenSSL Test Vector #22
des_decrypt_ecb:"025816164629B007":"A1F9915541020B56":"480D39006EE762F2"

DES Decrypt OpenSSL Test Vector #23
des_decrypt_ecb:"49793EBC79B3258F":"6FBF1CAFCFFD0556":"437540C8698F3CFA"

DES Decrypt OpenSSL Test Vector #24
des_decrypt_ecb:"4FB05E1515AB73A7":"2F22E49BAB7CA1AC":"07D2D3A07705292"

DES Decrypt OpenSSL Test Vector #25
des_decrypt_ecb:"49E95D6D4CA229BF":"5A6B612CC26CCE4A":"02FE55778117F12A"

DES Decrypt OpenSSL Test Vector #26
des_decrypt_ecb:"018310DC409B26D6":"5F4C038ED12B2E41":"1D9D5C5018F728C2"

DES Decrypt OpenSSL Test Vector #27
des_decrypt_ecb:"1C587F1C13924FFEF":"63FAC0D034D9F793":"305532286D6F295A"
DES Decrypt OpenSSL Test Vector #28
des_decrypt_ecb:"0101010101010101":"617B3A0CE8F07100":"0123456789ABCDEF"

DES Decrypt OpenSSL Test Vector #29
des_decrypt_ecb:"1F1F1F1F0E0E0E0E":"DB958605F8C8C606":"0123456789ABCDEF"

DES Decrypt OpenSSL Test Vector #30
des_decrypt_ecb:"E0FEE0FEEF1FEEF1E":"EDBFD1C66C29CCC7":"0123456789ABCDEF"

DES Decrypt OpenSSL Test Vector #31
des_decrypt_ecb:"0000000000000000":"355550B2150E2451":"0000000000000000"

DES Decrypt OpenSSL Test Vector #32
des_decrypt_ecb:"FFFFFFFFFFFFFFF":"CAAAAF4DEAF1DBAE":"0000000000000000"

DES Decrypt OpenSSL Test Vector #33
des_decrypt_ecb:"0123456789ABCDEF":"D5D44FF720683D0D":"0000000000000000"

DES Decrypt OpenSSL Test Vector #34
des_decrypt_ecb:"FEDCBA9876543210":"2A2BB008DF97C2F2":"0000000000000000"

DES-CBC Encrypt OpenSSL Test Vector #1
des_encrypt_cbc:"0123456789abcdef":"fedcba9876543210":"37363534333231204E6F77206973207468652074696D6520":"ccd173ffab2039f4acd8aefddfd8a1eb468e91157888ba68":0

DES-CBC Decrypt OpenSSL Test Vector #1
des_decrypt_cbc:"0123456789abcdef":"fedcba9876543210":"ccd173ffab2039f4acd8aefddfd8a1eb468e91157888ba68":"37363534333231204E6F77206973207468652074696D6520":0

3DES-ECB 2Key Encrypt OpenSSL Test Vector #1
des3_encrypt_ecb:2:"0000000000000000FFFFFFFFFFFFFFF":"0000000000000000"":"9295B59BB384736E"

3DES-ECB 2Key Encrypt OpenSSL Test Vector #2
des3_encrypt_ecb:2:"FFFFFFFFFFFFFFF3000000000000000":"FFFFFFFFFFFFFFF":"199E9D6DF39AA816"

3DES-ECB 2Key Decrypt OpenSSL Test Vector #1
des3_decrypt_ecb:2:"0000000000000000FFFFFFFFFFFFFFF":"9295B59BB384736E":"0000000000000000"

3DES-ECB 2Key Decrypt OpenSSL Test Vector #2
des3_decrypt_ecb:2:"FFFFFFFFFFFFFFF3000000000000000":"199E9D6DF39AA816":"FFFFFFFFFFFFFFF"

3DES-CBC 3Key Encrypt OpenSSL Test Vector #1
des3_encrypt_cbc:3:"0123456789abcdeff1e0d3c2b5a49786fedcba9876543210":"fedcba9876543210":"37363534333231204E6F77206973207468652074696D6520":"3FE301C962AC01D02213763C1CBD4C799657C064ECF5D4":0

3DES-CBC 3Key Encrypt OpenSSL Test Vector #1
DES-CBC Encrypt (Invalid input length)

des_encrypt_cbc: "0123456789abcdef" @dcb@ "fedcba9876543210": "373635343332321204E6F77206973207468652074696D65 20": 0

3DES-CBC 3Key Encrypt (Invalid input length)

des3_encrypt_cbc: "0123456789abcdef" @dcb@ "fedcba9876543210": "373635343332321204E6F77206973207468652074696D65 20": 0

Run through parity bit tests

des_key_parity_run:

DES Selftest

depends_on: POLARSSL_SELF_TEST
des_selftest:

6438080068803554439230129855496149269915138610753401343291807343952418264842370630061369715394 73913409092293733259038472039713333596594925632260979036686633213903952966175107096769180017 6466185157314759639015356438080680355449320129854614926991513861075340134291807343952418 264842370630061369715394739134090922937332590384720397133335965949256322609790366866332139039 952966175107096769180017646161851573147596390153643808068035544932012985461492699151386107 53401343291807343952418264842370630061369715394739134090922937332590384720397133335965949256 3226209790366866332139039529661751070967691800176461618515731475963901536438080680355449320 1298546149269915138610753401343291807343952418264842370630061369715394739134090922937332590 38472039713333596594925632260979036686633213903952966175107096769180017646161851573147596390 1536348080068035544932012985461492699151386107534013432918073439524182648423706300613697153 39473913409092293733259038472039713333596594925632260979036686633213903952966175107096769180017 01764616185157314759639015364380806803554493201298546149269915138610753401342918073439524 138264842370630061369715394739134090922937332590384720397133335965949256322609790366866332139039 9039529661751070967691800176461618515731475963901536438080680355449320 3Z\fI\dy0ox

mNW[T|$Y,$v9V DXufvzo|dir|wW=_H
T_&"*(Zoy:k
:"OR">"JG]\(QIP2w9X'X#kGP.9s{<SK)CN2 3y* -QC_DNe/e:pGM8 \TYF'r|ULAtKByPS* 3Q(5Y#s,.\i6j4TUSsoi8FG)\ gcS5y(ofu_\H8- }Xk-o) OuEC392F>piliCN6w&@3^"xHL?YRCWEG'B4y'f32,~}NufIr~dQdWYI?Aja{lyx7i Z@H)9A)- E0X]\4S54&mQ K$7nv2%o o QLZz}x+d|,g(#XI-%@qqoz.zU i2~^)q*9%A;YnP'yB(DAKDID-\wD")CST^8 <# z(n[MF]P)IJg@1_%.PT #rK[ShRjM\U1xf]zlh7K\WmG2Y1=L_.j1bg^zTq29DF4 2:@eamb3&\NvS~r_\1]+2P(0\Y) yrBA..D16Y<\m'gw OU#PFz286E8fJ4iR\HYbWO,q\H2^a.a.06Z 2L_SK&ul y F)eBPCfpiyiH 6eM#RGIST<TV14iyb\u-Bfh6yTD{\&Kd7nO^ n")I~WBYs\LUT T
Exponent: 65537 (0x10001)

X509v3 extensions:
X509v3 Basic Constraints:
CA:FALSE

X509v3 Subject Key Identifier:

X509v3 Authority Key Identifier:

Signature Algorithm: sha1WithRSAEncryption

-----BEGIN CERTIFICATE-----
-----BEGIN ENCRYPTED PRIVATE KEY-----
MIIE6jAcBgoqhkiG9w0BAEEMA4ECJUO+jJn7jpmKAgIICAASCBMtq9FFLoLGYOSR0
zyRMc87rKrv5vJlyBbYbKvTNxED77fTr6ZeOoF1oeZ9vdzWeJ4GkTeKwqT
WXjDATstrukvIvks99aFv9h15gU0YrSNzNaoesyS90hec9PTJ2+PG/Ty
xeU99ksVzvbAAatVQEO+0TWpgH+8oACRvGelnHwofw4/CJKXjctU08f6LdhLht1kwd
YXNNX0jxpyv2eLGIcUadp60D9WFjd44fcz46HispsqTfBUhYpbDj8lOT1vJwyjkm
cPNPsTeEy5FniryuFnu9g9LXTH0c0mJgLzgcilqRVEoEl87Lei5ieEl4hDazWna
s3Y7rjic926md5AqQ55QXPp9v6buaAV1qYkenoYz1WCZ3yphTTeApCyV449oMMD
wzcYWMOzH2eliZi/iiCFluo5samJjunCmpBiXT170GxbxXVrS3j3a9unHqVt88/ke
nj/EzWYVYaMJdNYlo8oWoJON3eEEnLaUvOYOTVnMgac6yy/oIKR7G0P026N4V2
c434yo0Qm6opT+7Ja831N1rWE52NxrWhs4pce2WshbTjg1Cwx1XMKh8nQYNm4oJ
kWywns/kBvs/5xpal2NRSowxzCR7BavB2mrcyMz3djobYscu74QwP/W6fkr6pN
gsgegRwLmVBehwvGjJ2Se2CDHvJNhvoD7vbnWNeTF01wW1wF4aE7p/eq7gSRX
z140C8NSbuY660nmQ9Lu+b7+NDTDz6fITJShnHqHxxLBw3On0m2/mu0eCd/5+MGJN
C4svgFsAhq9mT1VQZmpwGJBAbD29CvUueBF3+up+Mr+4IQ90OWEET2ZFm29gs4
j4azYJUI4+RLw75yNLVgx5r4Cc4eKGB/P7qVqH2CmjreKj0jyXlFT/PE3Df1c9z
F8eEprdml2ktrIQ3gC9dfw0kXspvcwqepCDS3r2v980vMnXbOCm7kMTMFb4h/MY
z1yaDkarkSHQk3qFY5O5DKUYHf6fwaATyqOgJywy9cy9n1tgbsCYMIpXF7yyw
FNA/GQIlbYRCd4kT64AHus710vVS3b3glcC+KIDkwCIJ0M+glxHsJ3L+PilMi
gm+YT/5FuSqZJ9IQ7P7MvovqSLW6y6vQHQBSc0Xh/CgHAl/BZ99A9afVPTri9OF
fxyAaf8KH1YPi3uKlnDms0d9qQvoDmLadfgxd6wuLM3iQpDORGx8o0opbjf11
FEBuUM5DqiH+eOxgeEvJLOAhMnPa4mv1brVdIvSS3CyjnrpPcfXyEXhBEYDjWdS
aYKR5BubUU990aN6T3EDRbhmHs25FC328sxS2ZJKNXclDruwi4EFpQVT+fukoz0
hoOW2BFMFLRflf+372LNIg5RN1536YhF8r4r701jrw9McX3zhbCGAtsXqyIO/k
hxC3x5ViqgZbyDygH/ZCJlF2PC82pp2RhZudJUyZl8z9OXvFyEOqMa6jxf/lyfkeEr/n80RTDiKq7lR3jMu7AhCNJqprEBFo9+hQ8+jmnwowL8LWhh0v/A
pc3qWluXORlpbxYAELO8wGhnnJWL4WmY252S3i0n8GiFkXewMRJsxStairjW
1m0wUVGSm5C08Rfon8=
-----END ENCRYPTED PRIVATE KEY-----

Certificate:

Data:

Version: 3 (0x2)
Serial Number: 11 (0xb)
Signature Algorithm: sha512WithRSAEncryption
Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
Validity
Not Before: Feb 12 14:44:07 2011 GMT
Not After: Feb 12 2021 2011 GMT
Subject: C=NL, O=PolarSSL, CN=PolarSSL Cert SHA512
Public Key Info:  
Public Key Algorithm: rsaEncryption
RSA Public Key: (2048 bit)
Modulus (2048 bit):
00:b9:3c:4a:c5:cb:e8:3a:8e:90:17:a4:9e:52:aa:71:
be:11:ad:5e:73:16:0e:64:11:48:04:ff:d6:e1:3b:
07:67:0b:03:2a:20:ed:02:38:8f:0b:ce:10:ef:
5e:1c:81:60:46:3e:bb:53:3d:2f:ad:06:de:47:1c:bc:
41:04:5d:1c:df:8b:1d:bf:7b:01:0a:56:6a:2:e0:1e:
36:b7:a0:5c:cc:30:5a:5a:8e:6f:cd:fd:11:9b:25:
17:f7
Exponent: 65537 (0x10001)
X509v3 extensions:
X509v3 Basic Constraints:
CA:FALSE
X509v3 Subject Key Identifier:
X509v3 Authority Key Identifier:
Signature Algorithm: sha512WithRSAEncryption
43:ff:9b:df:db:5f:0f:cb:9e:80:ff:08:3a:46:51:dd:0d:
60:5a:3a:0d
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MIIDQzCCAiugAwIBAgIbA5lBzANBgkqhkiG9w0BAQsFADA7MQswCQYDVQQGEwJOTDER
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MTEwMyEyMTQ0NDk3WhcNMjEyMjEyMTQ0NDADA3WjAYMQswCQYDVQQGEwJOTDERMA8G

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A1UEChMIUG9sYXJTU0wxHTAAbBgNVBAMTFBFbvGFyU1NMIENcnQgU0hBNTEyMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBcGKCAQEAnUtxKxciijjAPxj55qnF1JmGA5e1byzqZB3u+eA1ccxYMYZBF1IPB/W4TsF24m75cJ1RwU3WiHOhaA9ccvidtAa2BgtgBt9uVeWnuHL2Eu30kNnQm37h9HPP08+iTPXb985FPnJbRCLpJpIJ5se5fFnu4HczlS6JSItzvOE9npMY12sHtuj/XSI0VPfleHIFgRj61sz0vpt5HHLySrurtI2sWVrfc7N7XN7v6u7U1596735vSO1qRmH2XFsTCqdrSovBRzD7OvhBNXU37gvd3sBpWW4B42t6ZcwDBaM1vzIEZYiXKAdm1f/og9d9z9ahJqAH0X9wIDAQABo0wSzAJBqNVHRMEAjAAMB0GA1uDgQWBBR95Jx5vixU7I82tax39wq4TDABgNVHMSMEGDwGbS0WuSls97SUva51azVD+s+vMf9/zANBgkqhkiG9w0BAQ0F AAOCQFAEKhGh4cIQA4pFKDQ+GEfYaZn3qb4ptD9n3n36AKKw4NdhUXMtp3pxg/a9Lk0KVUHbfrTaLAIZBTeWjsde6x5rUlaTpbSNe+kjlDb0Q7UmAcSD6WOxL DugQP4w7T2sdXDon80MirDeRcbgHZrD4ccMiz/SWg5P7QrAaQ/IL3t7tDFqegPH/ CDPqGUdzwNnRx2xxMr7ABLn4DdwQA5zGWPC5dpWdwpdOPCe1g+ttbOy9T8B6Gjno7DX 893/ttePdU4lxLyWyUWV0De17QONMNmiUfyDLK131IO+mNiZiYKHSoBpDk66wEnxBUXuizD5rL3yWQCLAfLYk+hYFWjdQ==

-----END CERTIFICATE-----

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        <Configuration>Debug</Configuration>
        <Platform>Win32</Platform>
    </ProjectConfiguration>
    <ProjectConfiguration Include="Debug|x64">
        <Configuration>Debug</Configuration>
        <Platform>x64</Platform>
    </ProjectConfiguration>
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        <Configuration>Release</Configuration>
        <Platform>Win32</Platform>
    </ProjectConfiguration>
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        <Platform>x64</Platform>
    </ProjectConfiguration>
</ItemGroup>
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</ProjectConfiguration>
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</ProjectConfiguration>
<ItemGroup>
    <CLICompile Include="..\.\programs\pkey\dh_server.c" />
</ItemGroup>
<ItemGroup>
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        <Project>[46cf2d5-6a36-4189-b59c-e4815388e554]</Project>
    </ProjectReference>
</ItemGroup>
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</ItemGroup>
<PropertyGroup Label="Globals">
    <ProjectGuid>17D1A1DA-6803-4AA1-A0DB-566E00D7593C</ProjectGuid>
    <Keyword>Win32Proj</Keyword>
</PropertyGroup>
<RootNamespace>dh_server</RootNamespace>
</PropertyGroup>
<Import Project="$(VCTargetsPath)\Microsoft.Cpp.Default.props" />
<PropertyGroup Condition="$(Configuration)|$(Platform)=='Debug|Win32'" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>true</UseDebugLibraries>
  <CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
<PropertyGroup Condition="$(Configuration)|$(Platform)=='Debug|x64'" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>true</UseDebugLibraries>
  <CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
<PropertyGroup Condition="$(Configuration)|$(Platform)=='Release|Win32'" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>false</UseDebugLibraries>
  <WholeProgramOptimization>true</WholeProgramOptimization>
  <CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
<PropertyGroup Condition="$(Configuration)|$(Platform)=='Release|x64'" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>false</UseDebugLibraries>
  <WholeProgramOptimization>true</WholeProgramOptimization>
  <CharacterSet>Unicode</CharacterSet>
  <PlatformToolset>Windows7.1SDK</PlatformToolset>
</PropertyGroup>
<Import Project="$(VCTargetsPath)\Microsoft.Cpp.props" />
<ImportGroup Label="ExtensionSettings" />
</ImportGroup>
<ImportGroup Label="PropertySheets" Condition="$(Configuration)|$(Platform)=='Debug|Win32'">
</ImportGroup>
<ImportGroup Condition="$(Configuration)|$(Platform)=='Debug|x64'" Label="PropertySheets">
</ImportGroup>
<ImportGroup Label="PropertySheets" Condition="$(Configuration)|$(Platform)=='Release|Win32'">
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<ImportGroup Condition="$(Configuration)|$(Platform)=='Release|x64'" Label="PropertySheets">
</ImportGroup>
<PropertyGroup Label="UserMacros" />
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  <LinkIncremental>true</LinkIncremental>
</PropertyGroup>
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<UseDebugLibraries>false</UseDebugLibraries>

<WholeProgramOptimization>true</WholeProgramOptimization>

<CharacterSet>Unicode</CharacterSet>

<PlatformToolset>Windows7.1SDK</PlatformToolset>

</PropertyGroup>

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<DefineMacros>

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<WarningLevel>Level3</WarningLevel>

<Optimization>Disabled</Optimization>

<IncludePath>$(VCInstallDir)include;$(VCInstallDir)atlmfc\include;$(WindowsSdkDir)include;$(FrameworkSDKDir)include;</IncludePath>

</PropertyGroup>

<PropertyGroup Condition="$(Configuration)|$(Platform) == 'Debug|x64'">

<LinkIncremental>true</LinkIncremental>

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</DefineMacros>

<WarningLevel>Level3</WarningLevel>

<Optimization>Disabled</Optimization>

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<PropertyGroup Condition="$(Configuration)|$(Platform) == 'Release|x64'">

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</ItemDefinitionGroup>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform) == 'Release|x64'">

<ClCompile>

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</ItemDefinitionGroup>
<PreprocessorDefinitions>WIN32;_DEBUG;_WINDOWS;_USRDLL;POLARSSL_EXPORTS;%{PreprocessorDefinitions}</PreprocessorDefinitions>
  <AdditionalIncludeDirectories>./include</AdditionalIncludeDirectories>
  <CompileAs>CompileAsC</CompileAs>
</ClCompile>

<Link>
  <SubSystem>Windows</SubSystem>
  <GenerateDebugInformation>true</GenerateDebugInformation>
</Link>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)='Debug|x64'">
  <ClCompile>
    <PrecompiledHeader>
    </PrecompiledHeader>
    <WarningLevel>Level3</WarningLevel>
    <Optimization>Disabled</Optimization>
    <PreprocessorDefinitions>WIN32;_DEBUG;_WINDOWS;_USRDLL;POLARSSL_EXPORTS;%{PreprocessorDefinitions}</PreprocessorDefinitions>
    <AdditionalIncludeDirectories>./include</AdditionalIncludeDirectories>
    <CompileAs>CompileAsC</CompileAs>
  </ClCompile>
  <Link>
    <SubSystem>Windows</SubSystem>
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</ItemDefinitionGroup>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)='Release|Win32'">
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    <PrecompiledHeader>
    </PrecompiledHeader>
    <Optimization>MaxSpeed</Optimization>
    <FunctionLevelLinking>true</FunctionLevelLinking>
    <IntrinsicFunctions>true</IntrinsicFunctions>
    <PreprocessorDefinitions>WIN32;NDEBUG;_WINDOWS;_USRDLL;POLARSSL_EXPORTS;%{PreprocessorDefinitions}</PreprocessorDefinitions>
    <AdditionalIncludeDirectories>./include</AdditionalIncludeDirectories>
  </ClCompile>
  <Link>
    <SubSystem>Windows</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <EnableCOMDATFolding>true</EnableCOMDATFolding>
    <OptimizeReferences>true</OptimizeReferences>
  </Link>
</ItemDefinitionGroup>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)='Release|x64'">
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  </ClCompile>
  <Link>
    <SubSystem>Windows</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <EnableCOMDATFolding>true</EnableCOMDATFolding>
    <OptimizeReferences>true</OptimizeReferences>
  </Link>
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<ClInclude Include="..\..\include\polarssl\sha1.h"/>
<ClInclude Include="..\..\include\polarssl\sha2.h"/>
<ClInclude Include="..\..\include\polarssl\sha4.h"/>
<ClInclude Include="..\..\include\polarssl\ssl.h"/>
<ClInclude Include="..\..\include\polarssl\timing.h"/>
<ClInclude Include="..\..\include\polarssl\version.h"/>
<ClInclude Include="..\..\include\polarssl\x509.h"/>
<ClInclude Include="..\..\include\polarssl\xttea.h"/>
</ItemGroup>
<ItemGroup>
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    <ClCompile Include="..\..\library\arc4.c"/>
    <ClCompile Include="..\..\library\asn1parse.c"/>
    <ClCompile Include="..\..\library\base64.c"/>
    <ClCompile Include="..\..\library\bignum.c"/>
    <ClCompile Include="..\..\library\blowfish.c"/>
    <ClCompile Include="..\..\library\camellia.c"/>
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    <ClCompile Include="..\..\library\cipher.c"/>
    <ClCompile Include="..\..\library\cipher_wrap.c"/>
    <ClCompile Include="..\..\library\ctr_drbg.c"/>
    <ClCompile Include="..\..\library\debug.c"/>
    <ClCompile Include="..\..\library\des.c"/>
    <ClCompile Include="..\..\library\dhm.c"/>
    <ClCompile Include="..\..\library\entropy.c"/>
    <ClCompile Include="..\..\library\entropy_poll.c"/>
    <ClCompile Include="..\..\library\error.c"/>
    <ClCompile Include="..\..\library\gcm.c"/>
    <ClCompile Include="..\..\library\havege.c"/>
    <ClCompile Include="..\..\library\md.c"/>
    <ClCompile Include="..\..\library\md2.c"/>
    <ClCompile Include="..\..\library\md4.c"/>
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    <ClCompile Include="..\..\library\sha4.c"/>
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    <ClCompile Include="..\..\library\ssl_cli.c"/>
    <ClCompile Include="..\..\library\ssl_srv.c"/>
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    <ClCompile Include="..\..\library\timing.c"/>
    <ClCompile Include="..\..\library\version.c"/>
<ClCompile Include="..\..\library\x509parse.c" />
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</ItemGroup>
</Import Project="$VCTargetsPath\Microsoft.Cpp.targets" />
<ImportGroup Label="ExtensionTargets">
</ImportGroup>
</Project>
</Project>
Certificate:
  Data:
    Version: 3 (0x2)
    Serial Number: 14 (0xe)
    Signature Algorithm: sha1WithRSAEncryption
    Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
    Validity
      Not Before: Feb 7 16:06:36 2012 GMT
      Not After : Feb 7 16:06:36 2022 GMT
    Subject: C=NL, O=PolarSSL, CN=www.example.com
    Subject Public Key Info:
      Public Key Algorithm: rsaEncryption
      Public-Key: (2048 bit)
      Modulus:
        be:11:ad:5c:73:16:0c:64:11:48:04:ff:d6:e1:3b:
        07:67:0b:03:2f:a2:09:ed:f0:33:8f:0b:ce:10:ef:
        97:17:0b:13:0a:a7:6b:4a:8b:c1:47:30:fb:3a:f8:
        ca:01:e3:35:7f:fa:20:f5:dc:fd:69:b2:6a:00:7d:
        17:f7
      Exponent: 65537 (0x10001)
    X509v3 extensions:
      X509v3 Basic Constraints:
        CA:FALSE
      X509v3 Subject Key Identifier:
      X509v3 Authority Key Identifier:
Signature Algorithm: sha1WithRSAEncryption

-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----
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-----END ENCRYPTED PRIVATE KEY-----

HMAC-SHA-1 Test Vector FIPS-198a #1
depends_on: POLARSSL_SHA1_C

sha1_hmac: 20:
"001020304050600708090a0b0c0d0e0f0101112131415161718191a1b1c1d1e1f202122232425262728292a2b2c2d2e2f303132333435363738393a3b3c3d3e3f": "53616d706c65203321": "4f4ca3d5d68ba7cc0a1208e9c61e9c5da04030a"

HMAC-SHA-1 Test Vector FIPS-198a #2
depends_on: POLARSSL_SHA1_C

sha1_hmac: 20:
"303132333435363738393a3b3c3d3e3f40414243": "53616d706c65203322": "0922d3405faa3d194f82a45830737d5cc6c75d24"

HMAC-SHA-1 Test Vector FIPS-198a #3
depends_on: POLARSSL_SHA1_C

sha1_hmac: 20:
"5051253545554565758595a5b5c5d5e5f6f061626364565666768696a6b6c6d6f6f707172737475767778797a7b7c7d7e7f808182838485868788898a888c8d8e8f8f909192394959697989999a9b9c9d9e9fa0a1a2a3a4a5a6a7a8a9aabacadaeaf0b1b2b3": "53616d706c65203323": "bcf4e1abe8bb2d802f3d05ca7fb092ecf8d1a3aa"

HMAC-SHA-1 Test Vector FIPS-198a #4
depends_on: POLARSSL_SHA1_C

sha1_hmac: 10:
"701727374757677778797a7b7c7d7e7f808182838485868788898a888c8d8e8f8f909192394959697989999a9b9c9d9e9fa0a": "53616d706c65203334": "9ea886efe268dbecc420c75"

HMAC-SHA-1 Test Vector NIST CAVS #1
depends_on: POLARSSL_SHA1_C

sha1_hmac: 12:
"701727374757677778797a7b7c7d7e7f808182838485868788898a888c8d8e8f8f909192394959697989999a9b9c9d9e9fa0a": "53616d706c65203334": "9ea886efe268dbecc420c75"

HMAC-SHA-1 Test Vector NIST CAVS #2
depends_on: POLARSSL_SHA1_C

sha1_hmac: 12:
"701727374757677778797a7b7c7d7e7f808182838485868788898a888c8d8e8f8f909192394959697989999a9b9c9d9e9fa0a": "53616d706c65203334": "9ea886efe268dbecc420c75"
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<th>SHA1_HMAC: 10</th>
</tr>
</thead>
<tbody>
<tr>
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<td>&quot;d1f01455f78c4fb4&quot;: &quot;00d40f67b575914bec456a3e3201ef1f464be319a8d188c02e157af4b5f49b5a66d67f898a9f9db819f63a80a0a6a2f4d61f357571252e1b1a47a65defe884011c94b257bbca2817fe853f106e8138e386d7a5ac3103de0a3fa0ed6db7af9f66ebd1ccc6f86e4ada0132a03c2cde8f8b28a4b707f104b41bf3f44682a6647ea&quot;: &quot;56a665a7cde6f109f9fc5&quot;</td>
<td>&quot;4e5ef77fdff033a5b&quot;: &quot;e593266464e32019d159e2f2a344ec1bc19f9f131154e2a4d0e40ed466f1bc855d29f768356264fa1027f99195939a46f385a7e5d47a23ba91f28b22f811ea258dbbf3332bed3543b88525d5f41bd604fd64a341c2e4dbb4494c8ed96f0c59db4a052a683da7478e179af63893e6870ff8aca8b949799ac1d725fdda&quot;: &quot;981c0a7a8423b63a8fa6&quot;</td>
</tr>
</tbody>
</table>

**HMAC-SHA-1 Test Vector NIST CAVS #3**

depends on: POLARSSL_SHA1_C

**HMAC-SHA-1 Test Vector NIST CAVS #4**

depends on: POLARSSL_SHA1_C

**HMAC-SHA-224 Test Vector NIST CAVS #1**

depends on: POLARSSL_SHA2_C

**HMAC-SHA-224 Test Vector NIST CAVS #2**

depends on: POLARSSL_SHA2_C

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depends_on:POLARSSL_SHA2_C
sha224_hmac:14:"88e5258b55b1623385eb9632fa7e57d67:ead0bbf0f80b44f0b9dde6b1844543b7844ad2109247fa99de537847584ae93548999620d0617eabcaefa9ef3d4313a33628054335ce656c26fa298e0f11a6351096b2b38101ec786887177db39709737405983f9756b305a3eab492cf0e7eb42e5c2e15fa6be8718c0a50acc4e5717230":81c783af538015cefe3c60095d5f53

HMAC-SHA-224 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA2_C
sha224_hmac:14:"85d402d8221143d1abf75526e2538705":8020d8d898cc2e2298b32879c51c751e1d5558f8e2eab8f158604297d6d072e2261a1d68307b7cfe2617b57c7126f99e9476211d6161acd75d266da217ec8174b808489c9dc6f0448a0a306a3fc82e8bf54b7b17549368258d5d41f57978a4c266b92e8783ef66350215573d99be4089144b383ad8f3222baf8f3b80ff1bb2b:2aa0340ae9deaf3e3b38129da0c

HMAC-SHA-224 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA2_C
sha224_hmac:14:"545c6eecc5ee46fa17c59f19a49f818e":8bf7f3565593710152dd2b201874784ae951977cfd22f8b72a72a61320a8fa35697b5e913f717055595b1a1861ee3ed42f7b88481ef4df276b17dbecae7b4501de5d20de5b7626dd5ef6d65294db4bf6d82e3d9a9255c6435383af51c886362a3acbc6bd50a33ab5b2db034ce0112d42266bcedf7e3731a519aa1d784:3eb566eac54c4a3a9ef092469f24

HMAC-SHA-224 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA2_C
sha224_hmac:14:"446ab4abd438841a9750c7f173dfdf02e":2534e11e78e99cfcfaac8f722f04ade7045c7324d5893ce98e37c9a48bbed21ed7f58ec55379e42f7d26d604e9154966c14374be9c408e2257d7ba4ceec17197ee9f6e1808e1067aa8f24a99bd0c3267594c1887a40d167f8b7c7f8db0199f79b01fc50b8c86def490dfaf7a5135002c337177a8ce8a0f93e0580439a33733:59f44a9bbbed4875892d22d65b5ab

HMAC-SHA-224 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA2_C
sha224_hmac:28:"0e3d9b5b5e4cf0f09a4c11600af56d8d":f4589fa7c6328ea25cf8beae582026ba40a59d45a546ff31cfe80e882608f8699b954ac452c74586836416de9e90a5255bc5d63b405b370a5a197045688b32fa984ca3d3fdbe9c92460a0b5e6312a6240488bb6f170306535e9b371a3ab134a26442a23003d2c688ca80baeeae9a20e1d4e548b1ced29c6a45bf4df2e8c47f61a:1217593e3da4e58217154e4dc0a1cf42fab9319bb501e037b350ba

HMAC-SHA-224 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA2_C
sha224_hmac:28:"ca5187b0c5dc8b0fe8a5b8e23d06584":9011ae29b44c49b3474878ce972965f16ade3c315be0856ce9c853a9739dbada7e4f20d594dcd1e2f1560a65a4e458cfa7745575b915a30c7a9412ff8d1d609db9680dd2428c27588bb0dc92d2cd9445fe84f84b840a197c52e3433ff4f5533945134399bf6d463513c3faba06e924046bb2c795a5bd928ed5f2de85bf306f2e6d77:4aaaba92b40e2a600feab176eb9b292d814864195c0334a2aad6f67f08

HMAC-SHA-256 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA2_C
sha256_hmac:16:"cdfffd3c4e6b166f0dc0":d83e78b99ab6170960897236b767a575603db7422296cc5d4e7d5ca7816e26b65151c92632550bc4b5253885d5fe53cb47549a1dbd5652786ce4a0145a332f12e05138a04e4cbbb581017a7af5d478834c2146594dd73690d01a4ef72545894335f427ac70204790868cb686ca5a600b40b14e2e23590b41e1192373df84fe3";c6f0dde266cb4a26d41e8259d33499cc
HMAC-SHA-256 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA2_C
sha256_hmac:16:6d97bb5892245be2:13c2b391d59c0252ca5d2302bea88e4b7d779bb505ad9a122003dfae4cc123ad2bd036f225c4f04001a6bb9bbf88d6d0281f2e2631a732bdc71693cc42ef6d526b66912a9ef77b327485ad7f965a4e6ed44ac1721962a884ec7acfb4534b1488b1c0c45afa4d8e8a1eb7b0a88a32403657d4e7d826abbde9f9203fd99d7:31588e241b015319a5ab8c4527296498

HMAC-SHA-256 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA2_C
sha256_hmac:16:3c7e8a70b49007a:60024e42a83c988bb2e9591bad9dc2115dfbfdf7166eb7af30a6eb34560cac8bbf4a47b710fa8d523aaca71e95e5baf10cfe1eb1a43556ed71f07efa4f33496f093044e8cafd102b9e46eb1e88d5964a7a74946fb92574c35784ee054c6151281d808227fd47b8231c35d07f5cb5cf6f3410dcd84485a51c6fbaf5140c48ecaf9f:1c98c94a3b2ec9f253c21070f82f8438

HMAC-SHA-256 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA2_C
sha256_hmac:16:369f33f5b927a07:ae8e2a94ca3864d448bacdb0e9040ae3cb297c296363025cc157455da6a90e5897315f0c1e3f12b81e2418da1e2800cbeb0e84578454e9d14e6ea7b6c9b8d9b5804ba3ba7551f6e9ba9ce660be1a4b8cf43a2e5078b76c6512c5619b71a6a7cf5727180e1ff4f51a3c1691fb866ead365c151e58d794d57adb3a4986:60b90383286533d3039de45693a6e39fc51f6008a8828728c

HMAC-SHA-256 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA2_C
sha256_hmac:24:e5179667582bdc4:ce1033bdc3f2614f6727cb3c1a1c2824a850df00f558b016fb234f01f2d6873f02d3c6b738ed89a24006d65c36675d0d96307c72ef3e8a83bfa8402e226ede9d5d1724ab75c4879bf41a4a465ce61887df94a3a4757849b48bae81c27ebed76faae2ad669bca04774d09148d048127760ae2c395b3cb98981ce72d5c:509581f6816df4b8c9f2cf42b7cc6e6a5a1e375a16f2412

HMAC-SHA-256 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA2_C
sha256_hmac:24:63cec6246aeb1b61:01e178db908a4050a88a2a5558b0d222b4507016585f139ee930388b8088d86062fadb3ea1f23f8a43b1d11be8464bcbd1b95ab9f6a8038d5245516f82742d0c8ee3033a07b908da528fa00343bb595deed500cab9745e4cb63912c32000df358ab009b3326c4fa342620b78f9f5b4f27f17307ed770643ce1764aa3edcf1a3ec69:64f3dd861b7c7d29fcee90ce9ed954b571d418069e9ee0c7

HMAC-SHA-384 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C
sha384_hmac:32:91a7401817386948ca952f9a20ee55dc:2feaa5b91035d6d501f3a834fa178bbf4e64bf99a8450432dadfd32e4666b0e178711668a737fe036b3b0879029579f47bd1400a1906e85e0dfc00a6c26862e9148bb23806680f285ff1fe4f93daf924e181a9654657394f12268e868b71847c74b222577a1301bcda1a5e5f146aa1a3fd4d031123e97324b7509e9050a3d:6d7be9490058cf143c09fd043c2242ec4efa785b913783000a9a593e9f75838

HMAC-SHA-384 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
sha384_hmac:32:d6cac19657061aa90a6da11cd2e9ea47:9f48f2e4655173135dfaa2a211bbee6af263db48716406e5aec1626a3c4b4c1ad4f5a1558377521911c734311beee6598292902913d67b6de5c4bdc3d27299bd272219d5ad2ef5a5bb9ff7b2294f4bb3cf60719320c2f7a51cad1133d121bad2d80919b1836eef8253087b5c1c6b76777ac782e2b30007afba065681cbb1d215:3f3d5f3c008173521aa7b2e3a79eaa4f8b9d6cf0895ec8940b8162f80a7defe9f
HMAC-SHA-384 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
sha384_hmac:32":"e0636aad149b8442cd4ec1abdd0afdef"::"2d140a194c02a5598f69174834679b8371234a0d505491f1bd03e128d91a8ca2b1f82e95d6a7611b5b00952e788f45d5b5f574d7eaa713592508573c7e6f652009e51e3a388c6e9e9d0740beee1107360ec9b478b93efb34d7bf1c1b54decc4eaeb0773aa9998ed5e1f67b4ee36c2666f596435d3608d8387c70dadf":"c19e67edab6fe29f3667bee1c897333ce7683094ae77e84b4c16378d290895a1"

HMAC-SHA-384 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
sha384_hmac:48":"01ac59f2f8bb91d1bd10f6e99097da87"::"3cafc18e476edd5615f343ac7b7d3a9da9e9faede757672d5bab488e8a7505539ea2c124f755ec0457be49e43480b3c71ef7f474ec3693aadd115d039f9022b030fed9440313691716d5302005808c07627483b916df6f1983063ce2eb126f2deee42fcf7903345656c0bad265e31fc9066ed7ce7e43d1321b1866db45e905622"::"1985fa2163a5943fc5d92f1fe8831215e79f10bff55332bc713a072db3a8f9e5c5157463a3bfebe36231416e65973e64"

HMAC-SHA-384 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
sha384_hmac:48":"fd74b9d9e102a3a00df1baf0cb35bace"::"a06819785848316d1689ccbd0370c2114d537cede8cc52f6db1655535f8fd7ad0c850a9f0af6c23737f6b7f642b11fe184040d350721d798d9f99e9724830399c2fece26377e83d38845675457865c034a07d741a505ef028343eb29fd4ed0f7671f3792886998c1e53c23a3bc7e6f08a4ed1b4943f066f5d4a5b42c481e0e"::"a981eaf5de3d78b20ebd4414a4edd0657e3667cd808a0dbd430cf7252f73a5b24efa136039207bd59806897547d74e0e"::"b31416e65973e64"

HMAC-SHA-512 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C
sha512_hmac:32":"c95a17c09940a691ed2d621571b0eb844ed559a9"::"99cd28262e81f34878cdcebf4128e05e2098a7092728a666fac785784de05678f3f2b228fe89828cd3673b6273a222ec61750b4556d76f150a7aed6e83faedbc4bdae83fa560d62df17eb914d0df5daa84940551bac81d7005f3ca7147295e3868e120d66742ece65cc6ee8d89a92217a0f62660ddc60b2b0e679a8299ce8502e2f"::"6bc1379d156559ddee2ed240ea5d5ce5ff3e454a10597b7a272c350e7776e9333c"::

HMAC-SHA-512 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
sha512_hmac:32":"3b10b8f8a718840d1dea8e9fc317476cbf55875fd"::"f04f5bf7073d7d0274e8354433b390306c5607632f5f589e120d26d55673aff2366d2ed2b4de731ad92e654aba30b1cfd4d4a69788f6ece1b99b015d904d8832110db874eae3a581562d14ce4136d820ad0a55f5489aa678bfbcc127663ec1349d70e7400f0exc27cbf8971819f4789e486b50a2d7271d7e2aeae50de62fd"::"fc3c38c7a173cece06db033f1c172866f01a0045db55f2e234f71c82264f2ba2"

HMAC-SHA-512 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
sha512_hmac:32":"5f5bf7073d7d0274e8354433b390306c5607632f5f589e120d26d55673aff2366d2ed2b4de731ad92e654aba30b1cfd4d4a69788f6ece1b99b015d904d8832110db874eae3a581562d14ce4136d820ad0a55f5489aa678bfbcc127663ec1349d70e7400f0exc27cbf8971819f4789e486b50a2d7271d7e2aeae50de62fd"::"fc3c38c7a173cece06db033f1c172866f01a0045db55f2e234f71c82264f2ba2"
sha512_hmac:32\":4803d311394600dc1e0d8fc8e6eb8bde3f7e42\":\"a10c125dd702a97153ad923ba5e9889cfa1b1a69de370deb51f237335aa6e6fcca9785c4b5c7e48c477dc5c11ae69a59118584e26ade94b4c2b29b046f3cf01c65b24a24bd2e620bdf650a23bb8a72655b1100d7ce9a4daa8b697c6379754b4396c82de4b9ebf37e2a6c0d0353bbdeaf706612800e137b858fd930f3311c6\":\"7cd8236c55102e6385f32279506dfff6c388ab75092da21395ce4a82b202ffaf\"

HMAC-SHA-512 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
sha512_hmac:48\":aeb2f3b97f7fa6ce87e107c5a5c74f581660ed92\":\"2245735550d7c09ab46846b41cfe49a06ece42ac8857b4702f7c7f71508dfb3626ee0bfe851df897a07b36811ec433766e4b41666c26301b3493e7440d5540e06f6ac20f1a530e58fca8ae94e9f2d48988d8a28783b49cd269ec2965df7f8e4f2d60cfe5e5284f2495145b72382ad9ad0e153a90eace125ad75336fb128825c23fb8b\":\"fa39bd8fccc3bfa218f9de5d3b2ce10a7619ce31678a56d8a9d927b1fe703b125af4454debe9a89af07db194d27b44d85a\"

HMAC-SHA-512 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
sha512_hmac:48\":a285d3d7744da52775b4b44ca36a3154f798309d\":\"208f0b6f2de2e5a5df11927d6c6df485edc1193181c484d0f0a43a94514803101d4de89df79b9f3516a9f616fa38a8207de666e5f0e3441c03b112ceaaa86954ed063f7ae4e3ce3f732b0d153fe9e4857fe591430f0a70e8205929adac2467469f18ad1f01e2af0fe27c0abc83c5a9af77c364a466cffe8bab4e2b70b1\":\"fe7603f205b2774fe0f14ecfa3e338e90608a806d11ca459df5f5ce36b1b2364ec3af50f492a7521d8da3102ba20927a5\"

HMAC-SHA-512 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA4_C
sha512_hmac:48\":8ab783d5acf32efa0d9c0a21abc955e96630d89\":\"17371e013dce839963d54418e97be4b9d9f3cb2a368a52205a1b8aaddfa3bde691aefe7c712744df2f640f5cb99d8b5e25f7f0e8bc78883b89cdce6d749d9672fed22277ee3e84b3ece01b96f70c1755fcb3bee6d919be80f8739f5f173dbb05d81629ba187cc8ac1934b2f75952f1b7616a6b812946df694bd2763af\":\"9ac7ca8d1afec166b0464c7f602ebe181a0e5055474bfff5b342106731da07e48e8d78c0a6f058715742891a1b099f8\":0
10\*H
00\*H
00\*H0
0
\*H0
0?{\$P\{:Jw!\}?%RH?AfAoG-fsC&oA_344qwRXrc}4RA--kk\"uHz[h3la3Y\"=TW\"#ThIK(yxT8b]TzBkA][N\!H_A+c%n2Y./Wwn:wwv=k+.&O^Q3FC6pZ0Y017zN_MzU\"5JkN5A)!x
0YZtdqxyT\\u0391q8048Y&f(L,CR:!!#^+DF
8>f=\u003?o>G@F%\p11\}]2E<=u20w

$e5RHepolc\'e\aver=v++G?1_TG
Y*3gX+h&PB\"dtxX4%6SpYl:kPWNW\*B\n(G[\y]\n\0H\h\"-\O\o\o51Fd2awK\n+\n[CL\"~QDF#)TC=}\19wE1;\"_D3 =\tTV\gg@^D^\"aKWJ.b-S^b(?P+DF\&anHl\"A=n(IN\D&\fL.6R7X;[N;[Avb$=c=H3z3.mOdQ4k)]\]C\l;[Xxfdu[l\a5V+7\"=\"e\"^[St\A0t2\'Ycw9 udtQ'M/6%\&IR6pCaMjZRoUTBh0\"VAjo]0.H85<XvQ5&;:hv4
Subject: C=NL, O=PolarSSL, CN=PolarSSL Server 1
Subject Public Key Info:

Public Key Algorithm: rsaEncryption
RSA Public Key: (2048 bit)

Modulus (2048 bit):
89:75:07:db:ad:6a:18:3f:09:19:be:ad:65:2c:64:
54:b1
Exponent: 65537 (0x10001)

X509v3 extensions:
X509v3 Basic Constraints:
CA:FALSE

X509v3 Subject Key Identifier:

X509v3 Authority Key Identifier:

Signature Algorithm: sha1WithRSAEncryption
8e:80:e7:e1:9b:ce:60:5c:b0:33:02:0e:fd:df:be:61:bc:18:
6a:57:aa:9f
set(libs polarssl)

if(USE_PKCS11_HELPER_LIBRARY)
  set(libs ${libs} pkcs11-helper)
endif(USE_PKCS11_HELPER_LIBRARY)

if(ENABLE_ZLIB_SUPPORT)
  set(libs ${libs} ${ZLIB_LIBRARIES})
endif(ENABLE_ZLIB_SUPPORT)

function(add_test_suite suite_name)
if(ARGV1)
  set(data_name ${ARGV1})
else()
  set(data_name ${suite_name})
endif()

  add_custom_command(
    OUTPUT test_suite_${data_name}.c
    COMMAND ${CMAKE_CURRENT_SOURCE_DIR}/scripts/generate_code.pl
    ${CMAKE_CURRENT_SOURCE_DIR}/suites/test_suite_${suite_name} test_suite_${data_name} ${data_name}
    DEPENDS ${CMAKE_CURRENT_SOURCE_DIR}/suites/helpers.function suites/test_suite_${suite_name}.function suites/test_suite_${data_name}.data
  )

  include_directories(${CMAKE_CURRENT_SOURCE_DIR})
add_executable(test_suite_${data_name} test_suite_${data_name}.c)
target_link_libraries(test_suite_${data_name} ${libs})
add_test(${data_name}-suite test_suite_${data_name})
endfunction(add_test_suite)

set(CMAKE_C_FLAGS "${CMAKE_C_FLAGS} -Wno-unused-function -Wno-unused-value")

add_test_suite(aes aes.ecb)
add_test_suite(aes aes.cbc)
add_test_suite(aes aes.cfb)
add_test_suite(aes aes.rest)
add_test_suite(arc4)
add_test_suite(base64)
add_test_suite(blowfish)
add_test_suite(camellia)
add_test_suite(cipher cipher.aes)
add_test_suite(cipher cipher.blowfish)
add_test_suite(cipher cipher.camellia)
add_test_suite(cipher cipher.des)
add_test_suite(cipher cipher.null)
add_test_suite(ctr_drbg)
add_test_suite(debug)
add_test_suite(des)
add_test_suite(dhm)
add_test_suite(error)
add_test_suite(gcm gcm.encrypt_128)
add_test_suite(gcm gcm.encrypt_192)
add_test_suite(gcm gcm.encrypt_256)
add_test_suite(gcm gcm.decrypt_128)
add_test_suite(gcm gcm.decrypt_192)
add_test_suite(gcm gcm.decrypt_256)
add_test_suite(hmac_shax)
add_test_suite(md)
add_test_suite(ndx)
add_test_suite(mpi)
add_test_suite(pbkdf2)
add_test_suite(pkcs1_y21)
add_test_suite(pkcs5)
add_test_suite(shax)
add_test_suite(rsa)
add_test_suite(version)
add_test_suite(xtea)
add_test_suite(x509parse)
add_test_suite(x509write)
Certificate:
  Data:
    Version: 3 (0x2)
    Serial Number: 9 (0x9)
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<SubSystem>Console</SubSystem>
<GenerateDebugInformation>true</GenerateDebugInformation>
<EnableCOMDATFolding>true</EnableCOMDATFolding>
<OptimizeReferences>true</OptimizeReferences>
<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
</ItemDefinitionGroup>
<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)='Release|x64'">
<ClCompile>
<WarningLevel>Level3</WarningLevel>
</ClCompile>
<Link>
<SubSystem>Console</SubSystem>
<GenerateDebugInformation>true</GenerateDebugInformation>
<EnableCOMDATFolding>true</EnableCOMDATFolding>
<OptimizeReferences>true</OptimizeReferences>
<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
<AdditionalDependencies>%(AdditionalDependencies);</AdditionalDependencies>
</Link>
</ItemDefinitionGroup>

Certificate:

Data:
Version: 3 (0x2)
Serial Number: 10 (0xa)
Signature Algorithm: sha384WithRSAEncryption
Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
Validity
  Not Before: Feb 12 14:44:07 2011 GMT
  Not After: Feb 12 14:44:07 2021 GMT
Subject: C=NL, O=PolarSSL, CN=PolarSSL Cert SHA384
Subject Public Key Info:
  Public Key Algorithm: rsaEncryption
  RSA Public Key: (2048 bit)
    Modulus (2048 bit):
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Exponent: 65537 (0x10001)

X509v3 extensions:
X509v3 Subject Key Identifier:

Signature Algorithm: sha384WithRSAEncryption

-----BEGIN CERTIFICATE-----
MIIDQjCCAiqgAwIBAgIBCjANBgkqhkiG9w0BAQwFADA7MQswCQYDVQQGEwJOTDER
MA8GA1UEChMIUG9sYXJTU0wxGTAXBgNVBAMTFFBvbGFyU1NMFRIc3QgQ0EwHhcN
MTEwMjEyMTQ0NDA3WhcNMjEwMjEyMTQ0NDA3WjA/MQswCQYDVQQGEwJOTDERMA8G
A1UEChMIUG9sYXJTU0wxHTAbBgNVBAMTFFBvbGFyU1NMIENlcQgU0hBMzg0MIIB

Cipher Selftest
depends_on:POLARSSL_SELF_TEST
cipher_selftest:

Decrypt empty buffer
dec_empty_buf:

CAMELLIA Encrypt and decrypt 0 bytes
depends_on:POLARSSL_CAMELLIA_C
cbc_len=0

cAMELLIA Encrypt and decrypt 1 byte
depends_on:POLARSSL_CAMELLIA_C
cbc_len=1

CAMELLIA Encrypt and decrypt 2 bytes
depends_on:POLARSSL_CAMELLIA_C
cbc_len=2

CAMELLIA Encrypt and decrypt 7 bytes
depends_on:POLARSSL_CAMELLIA_C
cbc_len=7

CAMELLIA Encrypt and decrypt 8 bytes
depends_on:POLARSSL_CAMELLIA_C
cbc_len=8

CAMELLIA Encrypt and decrypt 9 bytes
depends_on:POLARSSL_CAMELLIA_C
cbc_len=9

CAMELLIA Encrypt and decrypt 15 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:16:0:
CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:0:16:
CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:1:15:
CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:15:1:
CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:15:7:
CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:16:6:
CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:17:6:
CAMELLIA Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
CAMELLIA Encrypt and decrypt 1 byte
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB
CAMELLIA Encrypt and decrypt 2 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB
CAMELLIA Encrypt and decrypt 7 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB
CAMELLIA Encrypt and decrypt 8 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB
CAMELLIA Encrypt and decrypt 9 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA:C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 15 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA:C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 16 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA:C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 17 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA:C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 31 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA:C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA:C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA:C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 47 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA:C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 48 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA:C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 49 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA:C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA:C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CFB128:128:0:0:

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA:C:POLARSSL_CIPHER_MODE_CFB
CAMELLIA Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_CIPHER_CAMELLIA:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CFB128:128:1:0:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_CAMELLIA:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CFB128:128:0:1:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_CIPHER_CAMELLIA:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CFB128:128:16:0:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_CIPHER_CAMELLIA:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CFB128:128:1:15:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_CIPHER_CAMELLIA:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CFB128:128:15:1:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_CAMELLIA:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CFB128:128:15:7:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_CAMELLIA:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CFB128:128:16:6:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_CAMELLIA:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CFB128:128:17:6:

CAMELLIA Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_CAMELLIA:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CFB128:128:16:16:

CAMELLIA Encrypt and decrypt 0 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_128_CTR:CAMELLIA-128-CTR:128:0

CAMELLIA Encrypt and decrypt 1 byte
depends_on:POLARSSL_CIPHER_CAMELLIA:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_128_CTR:CAMELLIA-128-CTR:128:1

CAMELLIA Encrypt and decrypt 2 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA:POLARSSL_CIPHER_MODE_CTR
CAMELLIA Encrypt and decrypt 7 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_128_CTR

CAMELLIA Encrypt and decrypt 8 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_128_CTR
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_128_CTR:CAMELLIA-128-CTR:128:8

CAMELLIA Encrypt and decrypt 9 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_128_CTR

CAMELLIA Encrypt and decrypt 15 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_128_CTR

CAMELLIA Encrypt and decrypt 16 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_128_CTR

CAMELLIA Encrypt and decrypt 17 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_128_CTR

CAMELLIA Encrypt and decrypt 31 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_128_CTR

CAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_128_CTR

CAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_128_CTR

CAMELLIA Encrypt and decrypt 47 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_128_CTR

CAMELLIA Encrypt and decrypt 48 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_128_CTR

CAMELLIA Encrypt and decrypt 49 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_128_CTR
CAMELLIA Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:0:0:

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:0:1:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:16:0:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:16:16:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:16:16:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:16:6:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:16:6:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:16:6:

CAMELLIA Encrypt and decrypt 32 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:16:16:

CAMELLIA Encrypt and decrypt 0 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_C
CAMELLIA Encrypt and decrypt 1 byte
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:0

cAMELLIA Encrypt and decrypt 2 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:1

cAMELLIA Encrypt and decrypt 7 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:7

cAMELLIA Encrypt and decrypt 8 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:8

cAMELLIA Encrypt and decrypt 9 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:9

cAMELLIA Encrypt and decrypt 15 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:15

cAMELLIA Encrypt and decrypt 16 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:16

cAMELLIA Encrypt and decrypt 17 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:17

cAMELLIA Encrypt and decrypt 31 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:31

cAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:32

cAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:33

cAMELLIA Encrypt and decrypt 47 bytes
depends_on:POLARSSL_CAMELLIA_C
CAMELLIA Encrypt and decrypt 48 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:47

CAMELLIA Encrypt and decrypt 49 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:48

CAMELLIA Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:0:0:

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:1:0:

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:0:1:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:16:0:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:0:16:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:1:15:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:15:1:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:15:7:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:16:6:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:16:6:
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:17:6:
CAMELLIA Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:16:16:
CAMELLIA Encrypt and decrypt 0 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:0
CAMELLIA Encrypt and decrypt 1 byte
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:1:
CAMELLIA Encrypt and decrypt 2 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:2:
CAMELLIA Encrypt and decrypt 7 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:7:
CAMELLIA Encrypt and decrypt 8 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:8:
CAMELLIA Encrypt and decrypt 9 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:9:
CAMELLIA Encrypt and decrypt 15 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:15:
CAMELLIA Encrypt and decrypt 16 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:16:
CAMELLIA Encrypt and decrypt 17 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:17:
CAMELLIA Encrypt and decrypt 31 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:31:
CAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CAMELLIA_C
CAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:32

CAMELLIA Encrypt and decrypt 47 bytes
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:47

CAMELLIA Encrypt and decrypt 48 bytes
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:48

CAMELLIA Encrypt and decrypt 49 bytes
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:49

CAMELLIA Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_256_CBC:256:0:0:

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_256_CBC:256:1:0:

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_256_CBC:256:0:1:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_256_CBC:256:16:0:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_256_CBC:256:0:16:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_256_CBC:256:1:15:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_256_CBC:256:15:1:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_256_CBC:256:15:7:
CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_256_CBC:256:16:6:
CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_256_CBC:256:17:6:
CAMELLIA Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_256_CBC:256:16:16:
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAYHTeJn5tXnpRdkdUyLB9u5Pyax6f660Nj4o8vXM13ETZzGfB9X4J7BKnBjngpuG7fa8H6r7gwQk4ZJGDTeqCrtSV/Uu1C93K9YRhTYJQj6vEVDH1bk2y1RDPD0ht5kpQqHtrDr0AR7/UV06p86j0oUDBMHEWmjDV0/Y10FZPRo7yXk9ZS5IGM5Cst99++uUMd/sMcB4j7Cf8qtbCHWjdnLao5v4Jv4EFbMs44TFeY0BGbH7vk2DmqV9gmaBmf0ZXH4ygSxJdE+PLs1BGe64E92hfx//DZtrenNLQNiTrM9AM+sdpBpVoNqjU13Bx5rU2BxFcFbXv15MT9TNuhXwI6DAQABoIA6dntYDiap6bzstyhC8M97rhrZw4dMisaEnNl/1lX5jaOG2dvV6xMZCMV+5TeXDOHAznY18y11vzz4Ut2TnFNfizCCEYNaA2fST3WglInnxUkV3YXAYpCNCxJalCmv2aA0yF1r2kFVSeaKgtyvmvlnPn2vKvm77t8fBQB0717AHxh43k0nR7XmPgewe8ApZOG3htkOaMvbWAWaCzCZupDzJyOjI4aEA4H8/w7F83r5CugeBE8LgEEREjLPliejrU5H1fubEY+h0dI5HzB16sbyXTIixoU9/o/QKA3add0tcBEhhdRUDGzWjvwkEQf1reGWj/td/gCPFDFi6x0ECgYEA4wOv/pjSC3y6TuOvKX2r0UIbrLXXv2JSXzNaMoMiW15ipLQt+RyTVPafm77Dn6MbwjayOkzBhwk5Cn5a6Q4lJf4Mq/lqHznRCQQ2Mc1G8eyDF/lyLZe2pLw9P9V5jTc2miDfw+MnVjhywRRLcemDFPF8k4hQvm8PMp3ZmNcECgYEA4g7wz0ObR4g8n8he617uQPZjWzUj9dUIHYd+in1gwBC1rtNnaRa9f9U/Q6tegRYPi4yo+c176NmU+unmy6XmuSVK5qD9bSpZWZG2nL descendantsEDL13MT26yo33g90mSSwY9DZeqpms+ULF6sY1zdF6tPcF0y8CgYAQHhmFjils2kyaq10B6ZxzCp3rtDpjkp0XjhFLLhiizFfrjMtZSjYNm5U7KpgVPHaLEEUvCmOnKTt4ap/vZoBxNe1gZHz3pW6aGDPq9p9sG7u/VP+TCuxKMmzxB08rDcvorEKMomg7ZZCRRwVZKZ5YeH2Z81BauRj218kQKBgQCUV/VgKPs29B5x6THT79N08jUo3hT5PMVYCCuij+/UeEw1TvxZ3lJhy7P6Xa6al1/BqveaGyFlfEFlaBUBItk801sDDpDyaC4gLO0Xc7IFuBHOZkxJy1s5QrGpuO69ZwU7rFLBdyAaKqHzNVC1lCPfb/Hyjd2HRUxgjxUwAQKBgQCucU6G2L8A9G9d9uUpOyL1tMvF5Tw0KjIQVdsh1MPS6ygY09DYwuruBFHFW2r0dBqeg2p/KToxKzaHfC1q0RGsUoJCNrdcwoCL8G32PEFw30BcKrQv8u4ytYOF+VlanjS5m3TaHSVFI+NWPYOTiwevIECGKswXvki4fDA==----END RSA PRIVATE KEY-----

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add_subdirectory(aes)
add_subdirectory(hash)
add_subdirectory(pkey)
add_subdirectory(random)
add_subdirectory(ssl)
add_subdirectory(test)
add_subdirectory(x509)
add_subdirectory(util)
add_executable(aescrypt2 aescrypt2.c)
target_link_libraries(aescrypt2 polarssl)

add_executable(crypt_and_hash crypt_and_hash.c)
target_link_libraries(crypt_and_hash polarssl)

install(TARGETS aescrypt2 crypt_and_hash
    DESTINATION "bin"
    PERMISSIONS OWNER_READ OWNER_WRITE OWNER_EXECUTE GROUP_READ
    GROUP_EXECUTE WORLD_READ WORLD_EXECUTE)

SHA-1 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA1_C
sha1:"":"da39a3ee5e6b4b0d3255bfe95601890af80709"

SHA-1 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA1_C
sha1:"a8":"99f2a95e36f95c2acb0ef23998f030638f3f15"

SHA-1 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA1_C
sha1:"3000":"f944dcd635f9801f7ac90a407fbc479964dec024"

SHA-1 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA1_C
sha1:"42749e":"a44319e9b6c1e8464c511ec0969c37d6bb2619"

SHA-1 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA1_C
sha1:"9fc3fe08":"16a0ff84f5c156fd5d3ca3a744f20a232d172253"

SHA-1 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA1_C
sha1:"b5c1c6f1af":"fee9deebfcedaf66dda525e1be43597a73a1f93"

SHA-1 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA1_C
sha1:"":"ce29561244de7066b6b30a1c371d74450a105c3f9735f7fa9fce38ef67f304a5736a106e92e17139a6813b1c81a4f3d33fb9546ab4296fa9f722b26e6669edacbd73b2548035185813e226349a4d50000d95a281f9f264ecce0a931222162d021cca28db5f3ce2aa24945ab1e31cb413ae29810fd794cad5daf29ec43cb38d198fe4ae1da2359780221405bd6712a5305da4b1b737fcce7cd721c0eb7728d08235a9011":"970111c4e77bce88cc20459e02b69b4aa8f58217"

SHA-1 Test Vector NIST CAVS #8
depends_on:POLARSSL_SHA1_C
sha1:"":"5fc2f36fa7e9dc94be526e5166a238899d54927ce470018fbd668f8d9dd97cbf64e2c91584d01da63be3cc9df08afdfec3ac72e1e3355b9ed87f069172e323d094b47fa1e652a4e4da147a9f4f6fda33cacb65f3aa12234746b9007a8c85"
SHA-1 Test Vector NIST CAVS #9
depends_on:POLARSSL_SHA1_C
sha1:"0865f46af83faed2da18482a09a8f390dca07d51d180fe0bf5f3928d5927d08733dd32075535a6d1c8ac1b2d
c6ba0f2633d1af6e3f0a3d85e6e0cb75b6c329de159a07fe5a36a07b5182eeca2afa236c1b4676f02126e0cf3e6976
804018380e5ab9c558ebe5cb1c9edded29794722bf8ab6398f1bf82baf0583f81c6a5677a3a07271d67773f000850e8ec4
28c7ff21cf10f1999895ec884485bf6abe06cecece6f83eb55ada4ec4ac21316f717ae5e08aebf84de78674297507abc471e
4e4a5d4bb5774a4fa24e51791a0edaa11093b8868fe30bba3be29e9113cd3342c51ca5da6096d80976b6e42e42cb91761
058008f746f35464565540ab86c668b60f7e1e4161bc39e9e6529625984bc87d46f07f735b0e67588a0117f23e3f57800e
2be09a1605fd6e087bf1b522cd3ac47566b8c4c800e4e0373e5baf6eaa21aabe71366affb27dbd304777d07c37e1b
8963812f5def4bf78bf2f3b1d3a3e883cdd47ef32beaea:"6692a717d3e002b7f976b5c6df97905d09e45"
SHA-224 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA2_C
sha224: "50efd0": "b5a9820413c2bf8211fbbf5df1337043b32fa4eafaf6a10ce8e9cecede"

SHA-224 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA2_C
sha224: "21ebecb914": "78fa471ec1c694499ce1c78666611b14ace70d905012c3563232c7c713"

SHA-224 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA2_C
sha224: "fc488947c1a7a589726b154363bf43d59556252f98feb62225c54c596d3067a42b979af9bd8619e137b5d188b2b89a9ace0108b4d2c3523c3ce3682ecc52118de01062ce21262ce657d6ea3d9e2398e7054db4b011feeeb266dffe4f3f1b4f24744fibe938dc22a889919ee1e73f463f7871f7d205199e31281626b7f2e0ad59a18e69c95c07819477796f048951dec3bd48d92a38710be113436d3c2908ee8bb3da17892c5d3bd3bced62801206ce7155d210a89b80aca6ea777c41ff9947c0f25625dbec118294a163501f6239c326661ia958fd12da4d15a89fbb888ec7235289056eaec5aa9a4e4c5bd6b68f09660423ccf8e4e86210707e0fbb5e1f126ceeb2616f6e147a647db0af09be869d6545bfb636154a46e46acb9f5ee62a2c7974cd14b903d4e499f181733e85b3c1d5da2b509d905f5ed7ef0d9c76496de62bee00375
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34f02224b9695682e082446276c6f1d1af151337bd085419047aa2a84797171a8a4860c5d586f7824b95ebc83767df60
be5aedef68456e20356aa4d943d4ac36bf80b67b9e8fd91a000c7ada74b798bafa746c661b010f75b59904b29dc0804150481
1c406f5f82e2ea8d582f595c9d88bce3e70434d9577b3737b7ce1e6a36e56f45f05c0370cfebb5e5f411c79481338aa6e78
6b3f5a2e77c241e545c333a2e9433ab723af5c49049395354a35577f64ab0d0ecc43f60221ed3badf72899eb37a9b9
03a2ad6c9e15faa4c310dca47e9a8ece424f05160a1002dbf20e4105d481db982f7243f197940a6e4cd9753ec4b9724a757
5f504b20c328e9a9d432a4f0475829ada07b53b69053d7c51737d3cd731934d3333a15f3c6f65aa31baaa54c05a166fa
e26e3c322437fe18c5a444d92f9ec5a8261e38b98f9ee5b7e7c02ece90ddcd5b3dde290367":"1302149d1e197c41813b05
4e942329d42e0366530f5517b470e696f4e

SHA-256 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA2_C
sha256: "": "3b0c44298fc1e149afbf4c8996fb92247ae41e464b934a495991b7852b855"

SHA-256 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA2_C
sha256: "bd": "68325720aabd7c823f0554b313d0570c95accb7dc4b5aae11204c08ffe732b"
SHA-256 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA2_C
sha256: "b0bd69": "4096804221093ddccbf46831490ea63e9e9941485f8d75ff7f642c7ca61803"

SHA-256 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA2_C
sha256: "c98ce55": "7abc22c0e5af26ce93dbb94433a0eb2e119d014f8e7f65bd656c61cccccd9504"

SHA-256 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA2_C
sha256: "7516f88bb11350df2bf386bc333bd0f52bc467c64745e0488e62c2ae62056"

SHA-384 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA2_C
sha256: "81a723d966": "7516f88bb11350df2bf386bc333bd0f52bc467c64745e0488e62c2ae62056"

SHA-384 Test Vector NIST CAVS #8
depends_on:POLARSSL_SHA4_C
sha384: "": "38b060a751ac96384cd9327eb1b1e36a211fd7b1114e07434a0cc7bf63f6e1da274edebe7f65fbd51ad2f14898b95b"

SHA-384 Test Vector NIST CAVS #9
depends_on:POLARSSL_SHA4_C
sha384: "ab": "fb94df5be118865f6fc8c978b825da82cffe2f6c6b842537d7bf4938469854b0ca8e966fa2e182834736629f3d"
SHA-384 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
sha384:"7d54b943421fd7ba90a7fb9637c2073a480454b841d39ff7f2f411fc21f6b7797b652c082329
342873d3ef99f4"

SHA-384 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
sha384:"7bdee3f8:"8bdafba0777ee446c3431c2d7b1fbb631089f71d2ca417abc1d230e1aba64ec2f1c187474a6f4077
d372c14ad07f99a"

SHA-384 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA4_C
sha384:"8f056094195":"504e414bf1db1060f14e8c799e25b1e0c4dcf1504ebbd1299980ae283e6de86e0d3c7e879c73
ee3b1836c3ee89c2649"

SHA-384 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA4_C
sha384:"665a6ade6214":"4c022f112010908848312f88b8f1072625fd5c105399d562ea1d56130619a7e8acd3f4738fd0
5ee37e4b690eb9daaa9800"

SHA-384 Test Vector NIST CAVS #8
depends_on:POLARSSL_SHA4_C
sha384:"7f46ece50d6593c4ed53c82cdeb602037e04858befbe03f793f0e532d18f2a31f5d676727c81451abf04dd9f4
7ababb47c9a7e1c7232132d120169c2dacf0b04a15257ae672b8245960ae55bd50315c0097da3a13817457887d7014706
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e0cd90af51b1e19947ec5b7eb66380d1141953b7a784aa5401679af7b044db19818f64d35354e45a6e613835b0a
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d0d61e6bf39026eccc6939f5197e1f7381d605e144a5928c8e2d1ad7467b650daf202f1f3234e1aff19a019a28685721c3
d2b5231c1721e3fdcab30f2i14cd3ac8ef8c433880e104f863fd7f6e9a9758719b9a7a00e86ea19676746df8e86f8efe8
916fd7e0c151147d4494f99642ae50f30e1c79a4d2d6c5188d13313cbef69094027b345b9295c0dfc7d5c8d73638bd9
8ebfbb00383ca0fa69cb8dcb35a125105e07ad8789047d06b3842a11bb928738e800ba0c33254f47a4aba8be3341a092c76
dbcefa67e30d303f47f8465cf8695e51b6bfcfe6c6fbb283593a645036b67f136f02929fe877e37547e583b6025859903
cb484574aaa312c9f4621277d537c33bee3141b5db96d10a148ce50aae4f582f872107577106d846e404b202f19e878d79a5
6cb6ca15f84a77a7f63935e1deee00309c2d68fa7176c04a66bb0e9009535438732cb42d008808533d8519b8a5e6e6
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b1d817d88e2eef37b4ca624395b05e85866082b249f29ef20bd3c29e031df94f540b4d3f9361ebf5b88c24b66c
39a8094cfe6218f5639f6d5fc8ae0c74af84fc6e1d07b09183a434722aa0225f8bdc68614df0738ed6f2848ec96077
7d155c08e26c46be626a73e3551968bd70d85610cf37c43c06eed4baf6a040a9c3ed7e15e8acda1f7477c2484e5c56f
b813313927be8387b102449595e98c87f1029091c01424bdc2b96c2eadb7d53b2e7a2b2d0cd2d1727df21d9b7c59
84305265f3695a75f472f2d7c94d68c27914f14f82a8dd5e4e234880bca9673f9826a0915525df0afa2b10350d22d3c9
996256c01ffdefb2c2e612519869f877e4929e96e955f15040f1485e22ed14119880232e3f35b7384815b1766a5552879
SHA-512 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C
sha512":"cf83e1357eefb8bdf1542850d66d8007d620e4050b5715dc83f4a921d36ce9ce47d0d13c5d85f2b0f83181d2877ee2f6f931bd4717a81a53827af9272a3e"
Open Source Used In HyperFlex HX Data Platform 5.0(1a)  16972

422ba6a5e2c2b765df93fd5d07286abdaaf03bce2e20678a544e2c36367f41bb6f4447e58a8f6c566b43ef817932176adbf
c2e04b2c812c273cd6cbefa4098f0be036a34221fa02643f5ceee0b38135f2a18edc2f16ebc45f8eb31b8ab967a1567ee01
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d";"8e4b6cf8b8c60fe4d86c1db915b3693c3151c46749af58a2da284429272f2335956db6dd6ce2ec8fa3f00a86eeb7f927
8e1ad60b821ed22fc309ba91a4138be9"

SHA1 Hash file #1
depends_on:POLARSSL_FS_IO:POLARSSL_SHA1_C
sha1_file:"data_files/hash_file_1":"d21c965b1e7687a6a6869f5f821901d255f9f"

SHA1 Hash file #2
depends_on:POLARSSL_FS_IO:POLARSSL_SHA1_C
sha1_file:"data_files/hash_file_2":"353f3427f12aef94923a89134a6db82b2ccdc6"

SHA1 Hash file #3
depends_on:POLARSSL_FS_IO:POLARSSL_SHA1_C
sha1_file:"data_files/hash_file_3":"93640ed592076328096270c756db2fba9c486b35"

SHA1 Hash file #4
depends_on:POLARSSL_FS_IO:POLARSSL_SHA1_C
sha1_file:"data_files/hash_file_4":"da39a3ee5e6b4b0d3255b5ef956061890a0f8d0709"

SHA-224 Hash file #1
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha224_file:"data_files/hash_file_1":"8606da018870f0c16834a21bc33385704c1b63b9dbab04c5ddd90a48"

SHA-224 Hash file #2
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha224_file:"data_files/hash_file_2":"733b2ab976f6f3f2e29b9a2089756d81e14c93fe4ce9615c05e80a3"

SHA-224 Hash file #3
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha224_file:"data_files/hash_file_3":"e1df95867580e2cc2100e9565bf9c2e42c24fe5250c19efe33d1c4fe"

SHA-224 Hash file #4
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha224_file:"data_files/hash_file_4":"d14a028c2a3a2be949760120b282834c415a2b0f82eaf62ac5b34e2f"

SHA-256 Hash file #1
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha256_file:"data_files/hash_file_1":"733b2ab976f6f3f2e29b9a2089756d81e14c93fe4ce9615c05e80a3"

SHA-256 Hash file #2
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha256_file:"data_files/hash_file_2":"733b2ab976f6f3f2e29b9a2089756d81e14c93fe4ce9615c05e80a3"
sha256_file: "data_files/hash_file_1": "975d0c620d3936886f8a3665e585a3e84aa0501f4225bf53029710242823e391"

SHA-256 Hash file #2
depends_on: POLARSSL_FS_IO: POLARSSL_SHA2_C
sha256_file: "data_files/hash_file_2": "11fcb1bba36ca45745f10cc546793e86f066f80ba2c46806d876bf783022ad2"

SHA-256 Hash file #3
depends_on: POLARSSL_FS_IO: POLARSSL_SHA2_C
sha256_file: "data_files/hash_file_3": "9ae4b369f9f4f03b86505b46a5469542e00aaff7cf7417a71af6d6d0aba3b70c"

SHA-256 Hash file #4
depends_on: POLARSSL_FS_IO: POLARSSL_SHA2_C
sha256_file: "data_files/hash_file_4": "e3b0c44298fc1c49aafbf4c8996fb92372bd449b934ca495991b7852b855"

SHA-384 Hash file #1
depends_on: POLARSSL_FS_IO: POLARSSL_SHA4_C
sha384_file: "data_files/hash_file_1": "e0a3e6259d6378001b54ef82f5dd087009c5fad86d8db226a9fe1d14ccbe33a6efc916e3a4b16f5286424de15d5a8e0e"

SHA-384 Hash file #2
depends_on: POLARSSL_FS_IO: POLARSSL_SHA4_C
sha384_file: "data_files/hash_file_2": "eff727afcf8495e92e2f370f97a317f93c3350324b0646b0f0e264708b3c97d3d332d3c5390e1e47130f592f1ef4b9cf"

SHA-384 Hash file #3
depends_on: POLARSSL_FS_IO: POLARSSL_SHA4_C
sha384_file: "data_files/hash_file_3": "6fb10ebda961ccf61777cac72f6034f92533d42052a4bf9f9d929e672973c71e5aeb1213268043c21527ac07f349e4"

SHA-384 Hash file #4
depends_on: POLARSSL_FS_IO: POLARSSL_SHA4_C
sha384_file: "data_files/hash_file_4": "38b060a751ac96384cd9327eb1b1e36a21f9f71114be07434c0cc7bf63f6e1da274edebf76f65fbd51ad2f14898b95b"

SHA-512 Hash file #1
depends_on: POLARSSL_FS_IO: POLARSSL_SHA4_C
sha512_file: "data_files/hash_file_1": "d8207a2e1f2b24f24f2c4163f6b7273c9bd42e464061eb4f11e8df730bdc24a7ab956a6f3f040a52eb2d262f9e4ca6b524092b544ab78f14d6f9c4cc8ddf335a"

SHA-512 Hash file #2
depends_on: POLARSSL_FS_IO: POLARSSL_SHA4_C
sha512_file: "data_files/hash_file_2": "ecb7f0ed8a702b49f16ad3088bccc06ea93451912a7187db15f64d93517b09630b039293ae418d40a0695777b7581f381548c2fd7b92ce5ed996b32ce8734e7"

SHA-512 Hash file #3
depends_on: POLARSSL_FS_IO: POLARSSL_SHA4_C
sha512_file: "data_files/hash_file_3": "7cc9b2da71fde9966c3ce4d7f20945f9e33b1f0ade4da152b021f1afec729338294aaa6c09a6c67a2f5f2026758e2bf6bed86ae2a43592677ee50f8eea41"
SHA-512 Hash file #4
depends_on:POLARSSL_FS_IO:POLARSSL_SHA4_C
sha512_file: "data_files/hash_file_4": "cf83e1375ee6fb8bff1542850d66d8007d620e4050b5715dc83f4a921d36ce9ce47d0d13c5d85f2b0ff8318d2877ecc2f63b931bd47417a81a538327af927da3e"

SHA-1 Selftest
depends_on:POLARSSL_SELF_TEST:POLARSSL_SHA1_C
sha1_selftest:

SHA-2 Selftest
depends_on:POLARSSL_SELF_TEST:POLARSSL_SHA2_C
sha2_selftest:

SHA-4 Selftest
depends_on:POLARSSL_SELF_TEST:POLARSSL_SHA4_C
sha4_selftest:
P =

SHA-128-CBC Encrypt NIST KAT #1
aes_encrypt_cbc: "ffffffffffffffffff0000000000000000": "00000000000000000000000000000000": 0

SHA-128-CBC Encrypt NIST KAT #2
aes_encrypt_cbc: "ffffffffffffffffff0000000000000000": "00000000000000000000000000000000": 0

AES-128-CBC Encrypt NIST KAT #3
aes_encrypt_cbc: "ffffffffffffffffff0000000000000000": "00000000000000000000000000000000": 0

AES-128-CBC Encrypt NIST KAT #4
aes_encrypt_cbc: "e37b1c6aa2846f6fd4b13f23b089f23": "00000000000000000000000000000000": 0

-----BEGIN PUBLIC KEY-----
MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQkBgQEA0UszjREj+JklUyevaN8fb0Gp13Dzb4pY3MCoJK15BwoeoUFAIRvuI0C8bRn/i1O04BN9tSRrJRW+S89YbYy1C73PUGKZSjejnEF4ChOQoH3M6K7t+Pcrx+sdiD1DheODMiSFhoxt+H6fIuvBEGkI5AWFuM5DP7wuIAZIQIDAQAB-----END PUBLIC KEY-----

AES-128-CBC Encrypt NIST KAT #1
aes_encrypt_cbc: "ffffffffffffffffff0000000000000000": "00000000000000000000000000000000": 0

AES-128-CBC Encrypt NIST KAT #2
aes_encrypt_cbc: "ffffffffffffffffff0000000000000000": "00000000000000000000000000000000": 0

AES-128-CBC Encrypt NIST KAT #3
aes_encrypt_cbc: "ffffffffffffffffff0000000000000000": "00000000000000000000000000000000": 0

AES-128-CBC Encrypt NIST KAT #4
aes_encrypt_cbc: "e37b1c6aa2846f6fd4b13f23b089f23": "00000000000000000000000000000000": 0

-----BEGIN PUBLIC KEY-----
MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQkBgQEA0UszjREj+JklUyevaN8fb0Gp13Dzb4pY3MCoJK15BwoeoUFAIRvuI0C8bRn/i1O04BN9tSRrJRW+S89YbYy1C73PUGKZSjejnEF4ChOQoH3M6K7t+Pcrx+sdiD1DheODMiSFhoxt+H6fIuvBEGkI5AWFuM5DP7wuIAZIQIDAQAB-----END PUBLIC KEY-----
AES-128-CBC Encrypt NIST KAT #5
aes_encrypt_cbc: "6c002b682483e0cabcc731c253be5674": "00000000000000000000000000000000": "00000000000000000000000000000000": "3580d19eff4f41014a7c966a69059de5": 0

AES-128-CBC Encrypt NIST KAT #6
aes_encrypt_cbc: "143ae8ed6555aba96110ab58893a8ae1": "00000000000000000000000000000000": "00000000000000000000000000000000": "806da864dd2d48d8b6475a7e764f8202afe": 0

AES-128-CBC Encrypt NIST KAT #7
aes_encrypt_cbc: "00000000000000000000000000000000": "00000000000000000000000000000000": "6a118a874519e64e9963798a503f1d35": "dc43be40be0e537127e2bf5ca707209": 0

AES-128-CBC Encrypt NIST KAT #8
aes_encrypt_cbc: "00000000000000000000000000000000": "00000000000000000000000000000000": "b26aeb1874e47ca8358ff22378f0914": "459264f4798f6a78b9e15e3d601": 0

AES-128-CBC Encrypt NIST KAT #9
aes_encrypt_cbc: "00000000000000000000000000000000": "00000000000000000000000000000000": "cb9fceec81286ca3e989bd979b0cb284": "92beedab1895a94f8a69b632e5e747ce": 0

AES-128-CBC Encrypt NIST KAT #10
aes_encrypt_cbc: "00000000000000000000000000000000": "00000000000000000000000000000000": "fffffffffffffff00000000": "90684a22c55fe1ec2babd62520b73": 0

AES-128-CBC Encrypt NIST KAT #11
aes_encrypt_cbc: "00000000000000000000000000000000": "00000000000000000000000000000000": "7472f9a7988607ca79707795991035e6": 0

AES-128-CBC Encrypt NIST KAT #12
aes_encrypt_cbc: "00000000000000000000000000000000": "00000000000000000000000000000000": "56aff089878bfb335258df172a3ae7d8": 0

AES-128-CBC Decrypt NIST KAT #1
aes_decrypt_cbc: "ffffffffe000000000000000000000000": "00000000000000000000000000000000": "23f710842b99b9c32f26648c786807ca": 0

AES-128-CBC Decrypt NIST KAT #2
aes_decrypt_cbc: "fffffffe000000000000000000000000": "00000000000000000000000000000000": "44a98bf11e163f632c47e6a49683a89": 0

AES-128-CBC Decrypt NIST KAT #3
aes_decrypt_cbc: "ffffffff800000000000000000000000": "00000000000000000000000000000000": "0f18aff94274696d9b61848bd50ae5": 0

AES-128-CBC Decrypt NIST KAT #4
aes_decrypt_cbc: "e234dca2606b81f29408d5f6da21206": "00000000000000000000000000000000": "fff60a4740086b3b9c56195b98d91a7b": 0
AES-128-CBC Decrypt NIST KAT #5
aes_decrypt_cbc: "13237c49074a3da087dc1d828bb78c6f": "00000000000000000000000000000000": "8146a08e2357f0ca30ea8e94d1af0544": "00000000000000000000000000000000": 0

AES-128-CBC Decrypt NIST KAT #6
aes_decrypt_cbc: "3071a2a48fe6c6bd04f1a129098e308f8": "00000000000000000000000000000000": "4b98e06d356de67eb824e5713f7be3": "00000000000000000000000000000000": 0

AES-128-CBC Decrypt NIST KAT #7
aes_decrypt_cbc: "00000000000000000000000000000000": "00000000000000000000000000000000": "0336763e966d92595a567ce9ce537f5e": "f34481ec3ce627bac5d3fe08f273e6": 0

AES-128-CBC Decrypt NIST KAT #8
aes_decrypt_cbc: "a9a1631bf4996954ebc093957b234589": "7978c4640bad75c7c3227db910174e72": 0

AES-128-CBC Decrypt NIST KAT #9
aes_decrypt_cbc: "00000000000000000000000000000000": "00000000000000000000000000000000": "ff4f8391a640ca5b25d23bedd44a597": "9798c4640bad75c7c3227db910174e72": 0

AES-128-CBC Decrypt NIST KAT #10
aes_decrypt_cbc: "00000000000000000000000000000000": "00000000000000000000000000000000": "f9b0fda0c4a898f5b966f66d4c4d07": "fffffffffffffffffffffffff0": 0

AES-128-CBC Decrypt NIST KAT #11
aes_decrypt_cbc: "00000000000000000000000000000000": "00000000000000000000000000000000": "8ade895913685c67c5269f8a9e42983e": "fffffffffffffffffffffffff8": 0

AES-128-CBC Decrypt NIST KAT #12
aes_decrypt_cbc: "00000000000000000000000000000000": "00000000000000000000000000000000": "39bde67d58ed8a8b1c37eb8fa95f9ae": "fffffffffffffffffffffffffe": 0

AES-192-CBC Encrypt NIST KAT #1
aes_encrypt_cbc: "fffffffffffffffffffffffffffffffffffffffffe0": "00000000000000000000000000000000": "00000000000000000000000000000000": "dddb505e6cc1384cbae1df90b80beb2": 0

AES-192-CBC Encrypt NIST KAT #2
aes_encrypt_cbc: "fffffffffffffffffffffffffffffffffffffffff0": "00000000000000000000000000000000": "00000000000000000000000000000000": "5674a3bed27b54bd3622f9f5fe20306": 0

AES-192-CBC Encrypt NIST KAT #3
aes_encrypt_cbc: "ffffffffffffffffffffffffffffffffffffffff80": "00000000000000000000000000000000": "00000000000000000000000000000000": "b687f26a89cfbfb8e5eae545055315e": 0

AES-192-CBC Encrypt NIST KAT #4
aes_encrypt_cbc: "25a39dbd8034f71a819fceb55026e40378b6aa30ab44ce": "00000000000000000000000000000000": "3608c344868e94555d23a120f8a5502d": 0
AES-192-CBC Decrypt NIST KAT #5
aes_decrypt_cbc:"fffffffffffffffff00000000000000000000000000000000":"00000000000000000000000000000000":0

AES-192-CBC Decrypt NIST KAT #6
aes_decrypt_cbc:"fffffffffffffffff00000000000000000000000000000000":"00000000000000000000000000000000":1

AES-192-CBC Decrypt NIST KAT #7
aes_decrypt_cbc:"b3ad5cea1dddc214ca969ac35f37da1a9a9d1528f89bb35":"00000000000000000000000000000000":0

AES-192-CBC Decrypt NIST KAT #8
aes_decrypt_cbc:"45899367c3132849763073c435a9288a766c8b9ee2308516":"00000000000000000000000000000000":0

AES-192-CBC Decrypt NIST KAT #9
aes_decrypt_cbc:"ec250e04c3903f602647b85a401a1ae7ca2f02f67fa4253e":"00000000000000000000000000000000":0

AES-192-CBC Decrypt NIST KAT #10
aes_decrypt_cbc:"0000000000000000000000000000000000000000000000000000000000000000":0

AES-256-CBC Encrypt NIST KAT #1
aes_encrypt_cbc:"8000000000000000000000000000000000000000000000000000000000000000":0

AES-256-CBC Encrypt NIST KAT #2
aes_encrypt_cbc:"c000000000000000000000000000000000000000000000000000000000000000":0

AES-256-CBC Encrypt NIST KAT #3
aes_encrypt_cbc:"e000000000000000000000000000000000000000000000000000000000000000":0

AES-256-CBC Encrypt NIST KAT #4
aes_encrypt_cbc:"de0e8a1f232a7879ded34ed8428eb8769b056bba8ad77cb65c354130b4cf":"0000000000000000000000000000000000000000000000000000000000000000":0
AES-256-CBC Encrypt NIST KAT #5
aes_encrypt_cbc:"f8be9ba615c5a952cabc3a24f68f8593039624d524c816acda2c9183bd917cb9";"00000000000000000000000000000000";"a394d495ca0b52043584ef02151926a8":0

AES-256-CBC Encrypt NIST KAT #6
aes_encrypt_cbc:"79f78b3d176da5b7e3a42d539c4ef367a16f8635f6264737591c5c07bf57a3e";"00000000000000000000000000000000";"761c1fe41a18acfd2d2416506111d90f1":"623a52f0ea5d443e48d918ab32c7421":0

AES-256-CBC Encrypt NIST KAT #7
aes_encrypt_cbc:"0000000000000000000000000000000000000000000000000000000000000000";"00000000000000000000000000000000";"a394d495ca0b52043584ef02151926a8":0

AES-256-CBC Encrypt NIST KAT #8
aes_encrypt_cbc:"8a560769d605868ad80d819bd6ba03771":"38f27ae10612415d27ca190d27d8ab":0

AES-256-CBC Encrypt NIST KAT #9
aes_encrypt_cbc:"91fbe2f2d15a97816060bee1feaaa49afe":"1bc704f1be135c6810341b216d7abe":0

AES-256-CBC Encrypt NIST KAT #10
aes_encrypt_cbc:"56ede9dda3f6f141bff1757fa689c3e1":0

AES-256-CBC Encrypt NIST KAT #11
aes_encrypt_cbc:"768f520efe0f23e61d3ec8ad9ce91774":0

AES-256-CBC Decrpyt NIST KAT #1
aes_decrypt_cbc:"0000000000000000000000000000000000000000000000000000000000000000":0

AES-256-CBC Decrpyt NIST KAT #2
aes_decrypt_cbc:"94f94eb63b9f7909676e667f1e":"ff800000000000000000000000000000":0

AES-256-CBC Decrpyt NIST KAT #3
aes_decrypt_cbc:"49af6b372135acef10132e548f217b1":"ff000000000000000000000000000000":0

AES-256-CBC Decrpyt NIST KAT #4
aes_decrypt_cbc:"ff000000000000000000000000000000":0
AES-256-CBC Decrypt NIST KAT #5
aes_decrypt_cbc:\"fffffffffffffffffffffffffffffffffffffffffffffff0\":\"00000000000000000000000000000000\":\"5b40ff4ec9b536ba23035fa09064c\":\"00000000000000000000000000000000\":0

AES-256-CBC Decrypt NIST KAT #6
aes_decrypt_cbc:\"fffffffffffffffffffffffffffffffffffffffffffffff0\":\"00000000000000000000000000000000\":\"60eb5a8416b2571493279194e8b88749\":\"00000000000000000000000000000000\":0

AES-256-CBC Decrypt NIST KAT #7
aes_decrypt_cbc:\"90143ae20cd78c5b78d5ebd6c94c1762427a96ec78c639b3cc41a61425646aee\":\"00000000000000000000000000000000\":\"798c7c005dee432b28ea5dafa381ecc3\":\"00000000000000000000000000000000\":0

AES-256-CBC Decrypt NIST KAT #8
aes_decrypt_cbc:\"b7a5794d5273745d53d5a377200845be0260a67a222ced8b9b15282270d07\":\"00000000000000000000000000000000\":\"637c31de2591a076366646b72dabbe\":\"00000000000000000000000000000000\":0

AES-256-CBC Decrypt NIST KAT #9
aes_decrypt_cbc:\"fca02f3d5011cfc5c1e23165d413a049d4526a991827424d896f3435e0bf6e\":\"00000000000000000000000000000000\":\"179a49c712154bfb6e7a84a18220\":\"00000000000000000000000000000000\":0

AES-256-CBC Decrypt NIST KAT #10
aes_decrypt_cbc:\"00000000000000000000000000000000\":\"00000000000000000000000000000000\":\"5c9d844ed46f9885085e5d6a4f94c7d\":\"014730f80ae625fe84026c6b7547d\":0

AES-256-CBC Decrypt NIST KAT #11
aes_decrypt_cbc:\"00000000000000000000000000000000\":\"00000000000000000000000000000000\":\"a9ff75bd7fc6613d3731c77c3bd6d6c4\":\"0b24af36193ce465f28257d4749c98\":0

AES-256-CBC Decrypt NIST KAT #12
aes_decrypt_cbc:\"00000000000000000000000000000000\":\"00000000000000000000000000000000\":\"623a52fcea5d443e48d91832b7154b7421\":\"761c1fe41a18ac20d241650611d90f1\":0

Certificate:
Data:
Version: 3 (0x2)
Serial Number: 9 (0x9)
Signature Algorithm: md2WithRSAEncryption
Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
Validity
Not Before: Jul 12 10:56:59 2009 GMT
Not After: Jul 12 10:56:59 2011 GMT
Subject: C=NL, O=PolarSSL, CN=PolarSSL Cert MD2
Subject Public Key Info:
Public Key Algorithm: rsaEncryption
RSA Public Key: (2048 bit)
  Modulus (2048 bit):
  03:6e:3f:74:ec:4a:7d:73:45:1b:cf:3a:ae:15:fb:
  0c:59:af:53:9b:07:d9:2b:68:8b:ee:0c:59:be:0d:
  42:0f:ae:00:19:ed:9e:41:63:2a:54:48:ef:26:97:
  1c:9c:59:ab:db:13:96:5c:9a:dc:0a:e8:9b:ee:0f:
  7a:1c:ff:88:ad:9d:1a:33:3c:49:93:44:1d:9b:32:
  22:2a:7b:0d:6b:34:20:75:db:5d:5a:2b:7d:9a:02:
  74:4b:1a:46:8a:26:0e:7e:8a:ed:7d:75:ca:83:eb:
  2c:3f:4b:1a:46:8a:26:0e:7e:8a:ed:7d:75:ca:83:
  eb:2c:3f:4b:1a:46:8a:26:0e:7e:8a:ed:7d:75:ca:
  83:eb:2c:3f:4b:1a:46:8a:26:0e:7e:8a:ed:7d:75:
  ca:83:eb:2c:3f:4b:1a:46:8a:26:0e:7e:8a:ed:7d:
  75:ca:83:eb:2c:3f:4b:1a:46:8a:26:0e:7e:8a:ed:
  7d:75:ca:83:eb:2c:3f:4b:1a:46:8a:26:0e:7e:8a:
  ed:7d:75:ca:83:eb:2c:3f:4b:1a:46:8a:26:0e:7e:
  8a:ed:7d:75:ca:83:eb:2c:3f:4b:1a:46:8a:26:0e:
<table>
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<th>Exponent: 65537 (0x10001)</th>
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<tr>
<td>X509v3 extensions:</td>
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<tr>
<td>X509v3 Basic Constraints: CA:FALSE</td>
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<tr>
<td>Signature Algorithm: md2WithRSAEncryption</td>
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<table>
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<th>Signature Algorithm: md2WithRSAEncryption</th>
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<tr>
<td>2e:0d:e1:30</td>
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<table>
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<tr>
<th>Signature Algorithm: md2WithRSAEncryption</th>
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<tr>
<td>MIIDpZCCAiegAwIBAgIBCTANBgcqhkkiG9w0BAQIFADADMQswCQYDVQQGEwJOTDERMA8G</td>
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BvNvNHSMGEDIAGWBpTjEnkdvCPV8e2nuisVWMq0MITANBqgkhiG9w0BAQIFAOAC
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gTU+U+zwR45xuao4DKWgL3bMA==
-----END CERTIFICATE-----

RSA PKCS#1 Verify v1# CAVS #1
depends_on:POLARSSL_SHA1_C
rsa_pkcs1_verify:"d6248e3e969b1a7e5fe4978870fcca4c97886b4e5156esa167bafe4557df677370b88b4c7e84f00c624df5
309513a35de8a94c2152e0459618666d3148092562ecb56ff4aa5b27fd2d36c88b5ea0aefbe4969e6388a361b1
db6f9c727246f4191409b589c209643c49d2dcd8083b8a704b83431565f1b1e55cd39e779a9c29:RSA_PKCS_V15:SIG
RSA_SHA1:1024:16:"e28a135842505f56debcc24e6cb7332ce6b989df64012049c781f46d72a16c5f3ed608e67c0
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e506323425e0b3e604a5e8ae60898e88a766bd78f8e9493dfd86bced22884df0621665469ef5:15:"3:3203b7
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dd8cd27e2512d617ad6799222666dbae2931340417f4d87e2b20eef284a444fd7af47ed6629e2e95809fa7224a04f70
ac70d3271bb13258a1ed5c5988e957df7af26603515791075fe6d:POLARSSL_ERR_RSA_VERIFY_FAILED

RSA PKCS#1 Verify v1# CAVS #2
depends_on:POLARSSL_SHA1_C
rsa_pkcs1_verify:"206ef4bf396e6078f8229ef196f6df373cc8bd8e5ecdcb238f02d556668f114257a11fbee038464a67830
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0f1f709e3547af4bcab9c9e8595a15e39965770a36d7c7b699035242f379546462cd5508ac11:RSA_PKCS_V15:SIG
RSA_SHA1:1024:16:"e28a135842505f56debcc24e6cb7332ce6b989df64012049c781f46d72a16c5f3ed608e67c0
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e506323425e0b3e604a5e8ae60898e88a766bd78f8e9493dfd86bced22884df0621665469ef5:15:"3:3203b7
647f7b3e4a5a54761e51317771faac1772fba5349284e8526f6065a26b269352cee6b42d6ba82397786ca2f
dd8cd27e2512d617ad6799222666dbae2931340417f4d87e2b20eef284a444fd7af47ed6629e2e95809fa7224a0f70
ac70d3271bb13258a1ed5c5988e957df7af26603515791075fe6d:POLARSSL_ERR_RSA_VERIFY_FAILED

RSA PKCS#1 Verify v1# CAVS #3
depends_on:POLARSSL_SHA1_C
rsa_pkcs1_verify:"206ef4bf396e6078f8229ef196f6df373cc8bd8e5ecdcb238f02d556668f114257a11fbee038464a67830
378e6ae9791453953dac1bd7921837ba98e84856eb80d94876560db20c288ca5e35db1abbed83ed1e7720a977
0f1f709e3547af4bcab9c9e8595a15e39965770a36d7c7b699035242f379546462cd5508ac11:RSA_PKCS_V15:SIG
RSA_SHA1:1024:16:"e28a135842505f56debcc24e6cb7332ce6b989df64012049c781f46d72a16c5f3ed608e67c0
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e506323425e0b3e604a5e8ae60898e88a766bd78f8e9493dfd86bced22884df0621665469ef5:15:"3:3203b7
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ac70d3271bb13258a1ed5c5988e957df7af26603515791075fe6d:POLARSSL_ERR_RSA_VERIFY_FAILED
RSA PKCS1 Verify v1.5 CAVS #5
depends_on:POLARSSL_SHA2_C
srsa_pkcs1_verify:"82e13548525e5f36edcb24ebcc73332 Cecil689dfidf4012604ec9781672a16c35f6cd0e867c03280b16c69b586ce0cd8ace722cc73a53db370310b7f7dbed77ce5d94bbe369dc18a2f7b07b7db505ab082224ae09fdc15063234255eb0eb3c40a52e98a6e0889eb88a7666dbd788fe9493d8fd8bced28845de06216e65469e5":16:"3":3bb71fc5391de4549e2e96f13dada4d6479d93e3223e1948b96ff4f2df2d1293236ec3ffdf025078a5f18baf38dcd0752bb50547c616ed5f1a352b3ab667688401868d21d263e2d3388d567d2ce8c6f74f45941ab2b0319d47ebe1266bda39e343b2a38ea2d66aaee6e4646ae1ed7bb33e93a40a8e3ae4":"0"

RSA PKCS1 Verify v1.5 CAVS #6
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srsa_pkcs1_verify:"44637db3dbe525fd589237bc812829e96d63af2450850c24036330dbd8007e6d19a19486018b2b02074da590aab94d2e8848ce0a21b16ded4af4af240295b639df9228008f8313cc76a67cbed77a6e3429342824a06ba9bd884094ace6a54bcb8829930c5e2f39e5e0dcd02d9553ef899db26eb6aca04906b3584e2daeb3b":RSA_PKCS1_V15:SIG_RSA_SHA384:1024:16:"e28a13548525e5f36edcb24ebcc73332c689dfidf4012604ec9781672a16c35f6cd0e867c03280b16c69b586ce0cd8ace722cc73a53db370310b7f7dbed77ce5d94bbe369dc18a2f7b07b7db505ab082224ae09fdc15063234255eb0eb3c40a52e98a6e0889eb88a7666dbd788fe9493d8fd8bced28845de06216e65469e5":16:"3":7b5fba70ec5b126381f182cbac39cec30b76ce0c17bbdbd1059685a91b0969ab482dce323fe9865952f0ade09782729513e0c15328ae375f47029a379ab4200550ba58f11d51264878406fc717df7b72b3582946f16a7e5314a220881fc820f7d29949710273421533d88ac0a44c9cd60fd1a21c2244edd1d0c54d3":0

RSA PKCS1 Verify v1.5 CAVS #7
depends_on:POLARSSL_SHA4_C
srsa_pkcs1_verify:"d03f12276f6ba7545b8fce719471bd253791788809694e8754f3b389f26c9335a758ed8284c62535a8d5702da778731d5759f23b39b192db68087916329188b6093c0e8aca25cb2f576af1d744a37f769fe0454455a45cbb8cefe4462e7a945ecf71f12189b4fe0f1b47eae85584d4c0d6a627a3e5f088018713f234cd":RSA_PKCS1_V15:SIG_RSA_SHA384:1024:16:"e28a13548525e5f36edcb24ebcc73332c689dfidf4012604ec9781672a16c35f6cd0e867c03280b16c69b586ce0cd8ace722cc73a53db370310b7f7dbed77ce5d94bbe369dc18a2f7b07b7db505ab082224ae09fdc15063234255eb0eb3c40a52e98a6e0889eb88a7666dbd788fe9493d8fd8bced28845de06216e65469e5":16:"3":8ef46f04303bba3e9f407a0cf5ebdabac4deeb39c99d416e7b00f5eb294ae0ece1908ed1f31e41fe69d109f0eb425bd60998a945e864298a60a6750fbb6c540a7b0e3f534d5faffdf1974eca8bfe18a244e2ee1f4653e71967a11896e1ea850edb03cb4a340378cb7a1bce916d63649f78002b390a05a7e54edee6":0

RSA PKCS1 Verify v1.5 CAVS #8
depends_on:POLARSSL_SHA4_C
srsa_pkcs1_verify:"d03f12276f6ba7545b8fce719471bd253791788809694e8754f3b389f26c9335a758ed8284c62535a8d5702da778731d5759f23b39b192db68087916329188b6093c0e8aca25cb2f576af1d744a37f769fe0454455a45cbb8cefe4462e7a945ecf71f12189b4fe0f1b47eae85584d4c0d6a627a3e5f088018713f234cd":RSA_PKCS1_V15:SIG_RSA_SHA384:1024:16:"e28a13548525e5f36edcb24ebcc73332c689dfidf4012604ec9781672a16c35f6cd0e867c03280b16c69b586ce0cd8ace722cc73a53db370310b7f7dbed77ce5d94bbe369dc18a2f7b07b7db505ab082224ae09fdc15063234255eb0eb3c40a52e98a6e0889eb88a7666dbd788fe9493d8fd8bced28845de06216e65469e5":16:"3":8ef46f04303bba3e9f407a0cf5ebdabac4deeb39c99d416e7b00f5eb294ae0ece1908ed1f31e41fe69d109f0eb425bd60998a945e864298a60a6750fbb6c540a7b0e3f534d5faffdf1974eca8bfe18a244e2ee1f4653e71967a11896e1ea850edb03cb4a340378cb7a1bce916d63649f78002b390a05a7e54edee6":0
RSA PKCS1 Verify v1.5 CAVS #8
depends_on:POLARSSL_SHA4_C
rsa_pkcs1_verify:"b2f2e6e09fd19b0a8c06447554d6a236c69e2b334017488881d8c02ab81d74cae0c64efd50a374998
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211ffb251bd4c1a738b88b2021c61c727c074ce933c054acbcbf4f0c362ec09af38de191686aebe":RSA_PKCS_V15:SI
G_RSA_SHA512:1024:16:"e28a13548525e5f36dccb24ecb7cc332cc689dfd64012604c9c7816d72a16c3f5fcdc0e86e
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RSA PKCS1 Verify v1.5 CAVS #9
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8ef139a9c83f5604ea52b231176a821fb48c45ed45226f31ba7e8a94a69f6c65c39b7278bf3f08f":RSA_PKCS_V15:SI
G_RSA_SHA1:1024:16:"e28a13548525e5f36dccb24ecb7cc332cc689dfd64012604c9c7816d72a16c3f5fcdc0e86e7c
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d21c93c298df748c6f5c26b7d03bfa3671f2a7488fe311309e8218a71171":0
RSA PKCS1 Verify v1.5 CAVS #10
depends_on:POLARSSL_SHA1_C
rsa_pkcs1_verify:"55013a489e09b6553262aab59fb041b49437b86d52876f8e5d5e405b77ca0ff6ce8ea2dd75c7b3b41
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f3d9ff47896adc16bec5ce0c9dda3fde190e08ca2451c01ff3091449887695f96dac97ad6a30e":RSA_PKCS_V15:SIG_
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d79ff0f9aee9fa78935eec65069439ee449d7f5249cdae6fdd6d8c2a63":POLARSSL_ERR_RSA_INVALID_PADDIN
G
RSA PKCS1 Verify v1.5 CAVS #11
depends_on:POLARSSL_SHA2_C
rsa_pkcs1_verify:"f4a990b8d434a5914340c0ca3ca4e4a70856c55e13e938c1f854e91cdef54c6107d6d682a62e6c1ff1
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5b19ae756b3904b97ec35aeb404dc2a2d0da373ba709a678d2728e7d72daae68d335cbf6c957d":RSA_PKCS_V15:SI
G_RSA_SHA224:1024:16:"e28a13548525e5f36dccb24ecb7cc332cc689dfd64012604c9c7816d72a16c3f5fcdc0e86e
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:"d8ef7bdc0f111b1249d5ad6515b6fe37f2ff327f493832f1385c10e975c07b0266497716fcb84f5039cd60f5a050614fd
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RSA PKCS1 Verify v1.5 CAVS #12
depends_on:POLARSSL_SHA2_S
rsa_pkcs1_verify="c81f04c79982971fa176d64e8f8812f86a94e49e84672ff10996a26dfe444884ca7874606a1aa
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1e5063234255e0b3c40a52e9e8a6089e88ba766dbb788fe9439d8fd86bcd28845d0621666469e";16:10001:"5
21111f7997da3c11b3c74394358348ab0f8c797bdbe99080e238d33a69b04b08ae2acd7676b3372473943e23af7aca32df56
8a43a3c7d0c55b4fbb380212fd7f6b0487e206944d287c3e233efdf7b04737c00037a592d03077801828b051998e42b9f9e
24200633313db2349918a6d4d8b65b2a2110ee7371f8e4f84eaced95b8df5501";RSA_PKCS1 Verify v1.5 CAVS #13
depends_on:POLARSSL_SHA4_C
rsa_pkcs1_verify="a972848717707797da997911f6decebb1d1cb9d46e8a8b008080f0ad5ea5a92e05d27a46c31d4fe6
cb990919bf12f8b7570470004ee42cfe5e530d77b34ac7c5d6f84530259503e0faee197952655f5bb6ea43249f011435
7ff11b0b08076179a101e49f3f25bbf5e6566f6afece97d7aa4740b5d9224de4deded0357768";RSA_PKCS_V15_SIG
RSA_SHA384:1024:16:"e28a13548525f53d6cbb24ebeb7cc332ec689df6d40120604c97816d72a1635f3c60e867c6
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1e5063234255e0b3c40a52e9e8a6089e88ba766dbb788fe9439d8fd86bcd28845d0621666469e";16:10001:"d
55cd27c74e04ea86f106663d3272fa7b798dd2d70f138ce15fc7013bf2d127f6bd3bd5751230af9e0e719d7522893
896642d1aece679712282b53d8d829bf91905b5db7e1b8efe27eb2eb4003b09defe7fe295f8a43c076c0cb52faacc067e8
7de7ffe3a2752d1a870c3dfe9b1d06d7f01867e9e1beb7d5328d5e8b";RSA_PKCS1 Verify v1.5 CAVS #14
depends_on:POLARSSL_SHA4_C
rsa_pkcs1_verify="4ce61930c79dc017c2deaca05b857d3a3b0e4a6f341e9a5061a6658a11e5ed9f5bad195ac3619699
c9e9be15788a8de6679a214ec84f5305825d5625a274e12c7f22d3425b5f5056d74afcc162ced44e6b9ee510ff919a09
4c3d2423b088536d62a98f1c689edcf3e3a3e3c22f7d11c109d76ae83d82d6a34cfdab536c3f";RSA_PKCS_V15_SIG
RSA_SHA512:1024:16:"e28a13548525f53d6cbb24ebeb7cc332ec689df6d40120604c97816d72a1635f3c60e867c6
032804ebe958f796a7acec273a5d3b73030107f7febe27c5e5d94abc369dc1fa2797b07bf05b0af822224ae09fdc
1e5063234255e0b3c40a52e9e8a6089e88ba766dbb788fe9439d8fd86bcd28845d0621666469e";16:10001:"d
55cd27c74e04ea86f106663d3272fa7b798dd2d70f138ce15fc7013bf2d127f6bd3bd5751230af9e0e719d7522893
896642d1aece679712282b53d8d829bf91905b5db7e1b8efe27eb2eb4003b09defe7fe295f8a43c076c0cb52faacc067e8
7de7ffe3a2752d1a870c3dfe9b1d06d7f01867e9e1beb7d5328d5e8b";RSA_PKCS1 Verify v1.5 CAVS #15
depends_on:POLARSSL_SHA1_C
rsa_pkcs1_verify="224ecd3b630581da948216366c74105a19723ce5a43d6e728454d084654a6df167a25cc00cf21
f729auefe6db7a3d3bda438e1e20a0ad483e9afa3e8568bb70a3187f2098da649a7e7ea68ed52748e7122522010226
3a6a28f67753077cd8df919b866bb6331027cb59b248f892896f82ff5a1d111722c3e6dace2";RSA_PKCS_V15_SIG
G_RSA_SHA1:1536:16:0"a59d9b7269b102b7e684ac5e28db79992ed32317e7c90b78960c2386356f6d6bdac1ac59
e7249d96d42e79f9397aebc6b8903e1942da803229b9bafacd8b1b911ce29b666f8886a2a8b4f55204430060ceed
5a8c321c4e284013cd41673c39a1198a885486f8187a702701854ec12bca48a1968305269776e700e69d9f4139589a8
87c4d0f5e7d58bd806d0d49a14a1762c38666e4f464ff13a0cd2c3a60460703c30d51db5b2866ffbf5b84d3495ff
af641757f2b8abe5fddd:"16:3;"1f793892b0a9c9d88bc8aca26bad9e79ea92373174203f3ab212a06de34a9a3e14e102d19a
RSA PKCS1 Verify v1.5 CAVS #16
depends_on:POLARSSL_SHA2_C
text:
- rsa_pkcs1_verify: "197222d33d1a1ac4e6b3ce1a01ab9bf1f89c0e636bc657e6a4a0c9bf13276106ecff42b2718219ff41
e1bde7bf9864a0b1a5032c19b83911111e880d7303c22e32fa137e74e604579a285b2d2b0ca3eabedab65c371eb403125
bd366e822e27d2e8fe60d55df3a1551c62638200dc9ab0b0d150da1ae251348aa49e9e0794dad": "RSA_PKCS_V15:SIG
_RSA_SHA224:1536:16": "a939db7629b102b7be684ec5e28db789926ed3231e77c90b78960c2638353e5edfbdac1ac59
e72a994d6246e7f72109397abec668930fe3a194da58032289bfacaf8d1b91192e6f83886a2a2864f55520443006ec
d5aa8c321c3e280413d4c6173c39a11b99a8584f68187a70f270185c412c4b2a1896305267767c700e6f9d4193589a8
87cd0f5e7dd58b8060d4d9a14a1762c38665c6e4f46ff113a0cd92a3a60460703c3d051d5b28c660ff58f8d43d495ff
a64f1757f28abe5fddd": 16": 3": "339dec3e1a937669d9b14c4f152756778861df5adac4da88ea3f833b1620b55a2a4d8d3b7a
ec3395a4a9b4246bb9a4170c7b65b02562fa9594b4575aeeefdafe4f80e9398e65c87d2ce73701465aef19249ed5d2167
b5121e5857534eb99a636bcbf4453a61bd858732de449c5f8ca85f14d0af8cd71be15b5b3d0724df00af6d5a7a7
737433cc3766409f8b84bc7ddd90776bae02452792cdd5b6e36f2edadfae6ceda0821ec8d4396447e722bf0a84ef060a
793a2179f054138f07d0e3": 0

RSA PKCS1 Verify v1.5 CAVS #17
depends_on:POLARSSL_SHA2_C
text:
- rsa_pkcs1_verify: "720b1ae27e1f5e5bfa15ded204c2e554b74220750a3e5b41f9f98b67c8bbf51a303df8d644856e2
12ce4eb3a26cfeceaa993d66e920679d8713e5216870f11276e5f2b0ead2821a7b4e10d6ce19b13e9ba56de73e
4bd93b6a5981a43d5e97ebfb0b357d506b21dbddc6bb1062d7748bb96e9e7fd943166b7c": "RSA_PKCS_V15:SIG
_RSA_SHA256:1536:16": "a59db7629b102b7be684ec5e28db789926ed3231e77c90b78960c2638353e5edfbdac1ac59
9e72a994d6246e7f72109397abec668930fe3a194da58032289bfacaf8d1b91192e6f83886a2a2864f55520443006ec
d5aa8c321c3e280413d4c6173c39a11b99a8584f68187a70f270185c412c4b2a1896305267767c700e6f9d4193589a8
87cd0f5e7dd58b8060d4d9a14a1762c38665c6e4f46ff113a0cd92a3a60460703c3d051d5b28c660ff58f8d43d495ff
a64f1757f28abe5fddd": 16": 3": "8117a6897e14c1837637761c5741350o8ae40945cd9ee8f033852e55979701ab
42470666051e5e852a19e8506477e641676a625a1d3a5a321e1bfc00a825b2dfe058b3e9b9cd1e60e26d36a
da6a30f5e601da6e85bed1e29c3e4557b5f6962efb10b9450d6f096655f68e8499cafa16a0adef9d705e7b91851fe4f8423
132d082735d01d1ad89c17e1ee6de4eaf1cb233050b275fa92ce57e9e1a0e23139267040aa39b6ad8870fa100ecccc38e2
183573ddc116262c262e1a0ced": 0

RSA PKCS1 Verify v1.5 CAVS #18
depends_on:POLARSSL_SHA4_C
text:
- rsa_pkcs1_verify: "f80c94a2b53736978adf041886ad97ab2ae9e91c08bd4eef6b2f8bd7d75a99b4506657188b0d759
7bd575912163062c7e88f9c3e09d4d88c7ea81abab5350aa62fa30abf5523f305b9812ce1743ec980f26ab8219ff41
0598b1ab1bdef733b384519d5259c5e14577cb6888af76f322f6a56b23ace24324278e9": "RSA_PKCS_V15:SIG
_RSA_SHA384:1536:16": "a59db7629b102b7be684ec5e28db789926ed3231e77c90b78960c2638353e5edfbdac1ac59
ej247994d62e7e9f0993f7ebac6b8903fe1942da58032289bfacaf8d1b91192e6f83886a2a2864f55520443006ec
d5aa8c321c3e280413d4c6173c39a11b99a8584f68187a70f270185c412c4b2a1896305267767c700e6f9d4193589a8
87cd0f5e7dd58b8060d4d9a14a1762c38665c6e4f46ff113a0cd29c53a60460703c3d051d5b28c660ff58f8d43d495ff
5faa64f1757f28abe5fddd": 16": 3": "6b49553ed964ae196a41ea281f4d2a250ce71de7c43455ecf2d2bed17554f39c3024
1e0364702bc87457eb0c8039f3df218090a05bafbb371baaf4f5119de0a9f88e1e96f17cidcadac6a914536cc660e39
b9057d8ed365c5806d38ace88b3ed8b6e05f44f6dbd51d7d75cb8fd83b8514c78376538651637532221f2429dh5b6
12ddc0349eb88feadb7ed6f5ed1f2f6b5576fd49c890296117be2c4195ec7b6101ea76df9d16a56fc9709b49308a54d
RSA PKCS1 Verify v1.5 CAVS #19
depends_on:POLARSSL_SHA4_C
rsa_pkcs1_verify:"4eb97094bb42aa58b040bd06a8f324396b9eca9e3959b7039c4a01043ee131a53ae9bd9f7a55ae5
8ea744af1a505a3ec52a05f4408513c3dce1ee42e7f9d59ec4a6f594be1ba39f1aa1933cdca5da7aff5ce44509577ebb3a3
e08a4e4401a2a7321e5a3f64a9ed9175633b79c0f570b630e6eebeeaa1f578880b5cbecd:
"RSA_PKCS_V15:SIG_RSA_SHA512:1536:16:a59d9b7269b102b7be864aece528db79992e6d3231e77c90b79860c2638835ef6dbdad1ac59e
72491d49d26e7f99399e9aceb986903fe194da58032298baadc81b91c296666f3886a2a2b86f5532440306e6dec
5a8c321c43e280413dc41673c9a11b9a88854898f187a70f270185c4c12b48a1968302569776700ef69d9515389a8
87c4d05ff7ed58bd8060d6049a1a1762c38666ecf4646ff13a0cd93a36040703c0d51d58b286ec60fbbf5b8d4d495ff
a46175f72b8abef5ddf"":16":"3":"2b8974a9a8621d492eeb18a4efed239e0e77989340a34b67d4f672bf3112f733d00ee
736f29988af85696a17491efbe8a39e295ffdf4d908c1ede6a1861a4d4b15a09d1bd3f23d2bb7906994cf82a972da8
5bf4e8f190c35c6f9350a9b66e621f6fca323195b21b3f5a77f8ce697475595a1587dbee85128e8f1beb2cb22922ce52
766f6df88ec129ad5ebcdd31fb1e4ed646cd3f193a9aaa54362bceaa04829819db7c04083814828f32979d59ad393ce76
31c47e37a93ff0d4a":0

RSA PKCS1 Verify v1.5 CAVS #20
depends_on:POLARSSL_SHA4_C
rsa_pkcs1_verify:"a3ed0f52c6166d7b7fe71634761f420337c3e9667594d00cd7877e6055396b35c54c4df4cc4e98706
0178fc10b7e5e827a5c878057002baef3d14c4e63a409298e0d6b5266b653775c0b0232272f48e319d053c4e0accoa3
4077acb88e0c6e9f375b2210f8788bd23d24eb6b1d4e1875b1ce85c6a18f8852af8266919be6":"RSA_PKCS_V15:SIG_RSA_SHA512:1536:16:a59d9b7269b102b7be864aece528db79992e6d3231e77c90b79860c2638835ef6dbdad1ac59e
72491d49d26e7f99399e9aceb986903fe194da58032298baadc81b91c296666f3886a2a2b86f5532440306e6dec
5a8c321c43e280413dc41673c9a11b9a88854898f187a70f270185c4c12b48a1968302569776700ef69d9515389a8
87c4d05ff7ed58bd8060d6049a1a1762c38666ecf4646ff13a0cd93a36040703c0d51d58b286ec60fbbf5b8d4d495ff
a46175f72b8abef5ddf"":16":"10001":"180630d2f4dc91d2db1159978e27cd7aace4b178e274ff9770770cd2e1c5017df2
223425604c1b4e4da2ce3e39b3a32d32536a39b6f60342cb30e2dab0d9598e2580727fe18126b74e07c1e767f4ec3
eabcfaace317d5f5391f29902d80031ca20a1ab3352629a96ca4a70b51294c2fd3d0ac51373d7db780e162d34be2f9
8104d876a4909366c8628ee4698d96514f68bd1f1193664eabe9166efebf909b87d3053f50f1acc3599ed333ef4009fb
ad4059a1a5026cb04ae4ec1d2f3":0

RSA PKCS1 Verify v1.5 CAVS #21
depends_on:POLARSSL_SHA4_C
rsa_pkcs1_verify:"ac58fd0242087f045d81a56cd55a40ab86b02d16ab55136c7027aca23ea13480a52c0daceed098
139b25696a4a7f7641d92037195d24b0c27050d52cb3467b48b7be371d852c5f82bd9ee85a838eae5dcd8c3c6d4979
e8da973413731963e245ad3237d253fd5d56f0e911c452656858e806b0dffdb99":"RSA_PKCS_V15:SIG_RSA_SHA512:1536:16:a59d9b7269b102b7be864aece528db79992e6d3231e77c90b79860c2638835ef6dbdad1ac59e
72491d49d26e7f99399e9aceb986903fe194da58032298baadc81b91c296666f3886a2a2b86f5532440306e6dec
5a8c321c43e280413dc41673c9a11b9a88854898f187a70f270185c4c12b48a1968302569776700ef69d9515389a8
87c4d05ff7ed58bd8060d6049a1a1762c38666ecf4646ff13a0cd93a36040703c0d51d58b286ec60fbbf5b8d4d495ff
a46175f72b8abef5ddf"":16":"10001":"a142b0d9456f8f14772765256a0813a66c416b1a172975c69dca5f8bce1be9c2
4359a04fd1f5406b61f36a8111f3ec3ee2e172152410chb1750fd7e1d3b1528a9b9edadb8c5f5182162c368ef27a4f
7fb4a1a3873f3e384a5b1c3b4966c837b9d8d192ac3e043943b7ae191355aa1ff3b9cd041bb2668f181cf0d153b3d36
08c9ac739398212cf0f1321bd4557d4776b999ff3cf05e2c069593ececde851a7f46abcefe0fabba9b94601536b8a7232
a5c6e76683a446aeff3ee327":POLARSSL_ERR_RSA_INVALID_PADDING

RSA PKCS1 Verify v1.5 CAVS #22
depends_on:POLARSSL_SHA2_C
rsa_pkcs1_verify="027176728a5821e2723df63c43e6b498b6f0b381852571794a096bd49f1c36a4d7baacec7ce402c2
4b9f701631619733b903ec7f3dc99b457df4ca40515f2f8a64e1bbe007c22e88638f9f117bd1a7ef2d2b7343abbb5fa4
15df65f83b8c90a4b92b2779de504cd397a4291562810d6f8581021606a1c0d88d51cead98a";RSA_PKCS_V1.5:SIG_RSA_SHA232:1536:16:"a59d9b7269b102b76e84ec5e28db79992ed3d231e77c90b78960c263835f6fd6bac1ac
59e7249d64d26fe7093937e1aeb68903fe1942da5032d9b98bafac181b81c929668a83886a2a2864f35520440036ode
d5a8c321c43e2b0413dc1673c39a11b9a8a885486f8187a0f270185c42c1b2a48a1968302569776c070efed94913589
a887c4d0f5e7d5d588d06d049a4a14a17623c8656ec4f4666f13a0edc293a66046703c3d051db52c6e60f2f58b4ad349
5fa6a41757f2eb8e5fddd";16:"10001";0766e64d2aa18f44f9ed9df324543db9885270f0f1db794f643f1552266ba
70d318800f83160fa1a19916e5c09f079331079f18c8ba1a4b848cb28501824974f683ed2b9bahaba89c15bea3080
2805c6cb2152117964811bf5bf3994d2e979f2e8c5b15a23c14da7e56be00ea88b26676841ff5b59cabc0be43341bf
f994c3983652a4047a0f5d8513b962407c63bdf06e22a2ec68f0b589cb4e5e0d2032ac15e15e38c6d85c7
0a7f338a4f5a933959172cf6b":POLARSSL_ERR_RSA_INVALID_PADDING

RSA PKCS1 Verify v1.5 CAVS #23
depends_on:POLARSSL_SHA2_C
rsa_pkcs1_verify="06ddc94d0566ea45b9ed2ae5f6c1cafa3ae60fe01049e286724a70a8901aabc9f50e55f9a352ef0
c07848429505c75e7a21b0fe1423c3b6f002a83afca54ca05007c04ba79ce7a80e1107c7b282db2aaedd903b28ef96
42519992a495ee49235f992a40aceae5b2a1bce475495d70c6e750746141996c44561407c";RSA_PKCS_V1.5:SIG_R
SA_SHA224:1536:16:"a59d9b7269b102b76e84ec5e28db79992ed3d231e77c90b78960c263835f6fd6bac1ac59e
7249d64d26fe7093937e1aeb68903fe1942da5032d9b98bafac181b81c929668a83886a2a2864f35520440036ode
d5a8c321c43e2b0413dc1673c39a11b9a8a885486f8187a0f270185c42c1b2a48a1968302569776c070efed94913589
a887c4d0f5e7d5d588d06d049a4a14a17623c8656ec4f4666f13a0edc293a66046703c3d051db52c6e60f2f58b4ad349
5fa6a41757f2eb8e5fddd";16:"10001";0768f3992586d6e066d76a0a6a822c8e71be7a0da34ec74a35475552538445adee
3456243c3f2bd6a6f63f57c8883632508457130f3daee047806e4afed3d1d501e16c9d1bf6c71a42b80e95c702782750
63d50a9a3ceef05020867b9896ebe88c35857d1212beb4e610d3c3d835dfe256f2ba6d300e5f6ed1284893f71baf3
63e4d7ba2e5f0492295444d7e5fe5cbe1e79e690c74617650b54a3e82c39535552f04f46e17b5fc7f77c3533050f4129e8
93ac22a6f91b9a4f5b5a855f";0

RSA PKCS1 Verify v1.5 CAVS #24
depends_on:POLARSSL_SHA4_C
rsa_pkcs1_verify="67922a8b9cbe95cf7c555f2d73cfe62e04cf0d9bfc8f64293a58bd3bebd2e2b12d711f94e35c729
0d8736db244914d21bd0e59b23089b837804e3f4f08e0f4d0790a9c3b08a5740396855789c6e31ee6e4ecba8f83416
RSA PKCS1 Verify v1.5 CAVS #29
depends_on:POLARSSL_SHA2_C
rsa_pkcs1_verify:"f7857ce04bf4292ea17579f5e5872232724dcdff10bdddcc0ff94898aaf6a0e4b82873085c1cd5a5
d181e6eb99a1f8520fd7497d4e5e37e358e8dd4cad4e4a65e3e9403ee1e1f0986515733f357539cd3cfe0c114bf3e32
c5f1cd418359016b3867df467b6454d752808671a4609f3c49a67023c9ca167e6c6f4a544a10":"RSA_PKCS_V15:SIG_RSA_SHA256:1536:16:"a59d9b7269b102b7b6e846ec5e28dbff999926ed32317e7c90b78960c263835fe6fbdac1a59e7249d6sd6e27f949f9379eaeb66f8903fe19424a580522b989bafed81b8111c926966f83886a2a2864f55204406ec0d5a8c321c4e280413dc41673c39a1198ba885486f8187a0ft270185c1cd5e2bce8287085c1cd5a5
d181e6eb99a1f8520fd7497d4e5e37e358e8dd4cad4e4a65e3e9403ee1e1f0986515733f357539cd3cfe0c114bf3e32
c5f1cd418359016b3867df467b6454d752808671a4609f3c49a67023c9ca167e6c6f4a544a10":"RSA_PKCS_V15:SIG_RSA_SHA256:1536:16:"9677300bbee003be34e45634f8ed5f86b2562b56f46f5e85eaf7e210f0aef38e7e99af6
d07f412f3449d3026da3e8a7ac36b9b944b48318038486e5552ffaa10f75287829b231d2d804908e09081ae177ed888
e4d9d97a30781eb5d52ec541c8411e4cbf7e6ea6c213b12ceaa31b0739ee9ca74973e10a77969364eea0c5d3a9013
c5536781ac68eb2ca27579144dec23da2e9875114aca8853b219df29273940c55992ea3e488288975434056250e44
ea01a4d594005a01242493":0

RSA PKCS1 Verify v1.5 CAVS #30
depends_on:POLARSSL_SHA2_C
rsa_pkcs1_verify:"ca312774f275ac2019f21a30a163c90a49caefec25f7974a7c362668e37ee7664f4d7635241f25205e50c37061bo2c546d8b346fa597c3d8cad448a28ce5af4ecfcd1797b39a1b215d9b9bb93db5e6b5fb45abda247a506888a6f198b6224a089749049120te35e3e9085668b10f44b851b7d90465e03e6839790fe38a615b":"RSA_PKCS_V15:SIG_RSA_SHA256:1536:16:"a95d9b7269b102b7b6e846ec5e28dbff999926ed32317e7c90b78960c263835fe6fbdac1a59e7249d6sd6e27f949f9379eaeb66f8903fe19424a580522b989bafed81b8111c926966f83886a2a2864f55204406ec0d5a8c321c4e280413dc41673c39a1198ba885486f8187a0ft270185c1cd5e2bce8287085c1cd5a5
d181e6eb99a1f8520fd7497d4e5e37e358e8dd4cad4e4a65e3e9403ee1e1f0986515733f357539cd3cfe0c114bf3e32
c5f1cd418359016b3867df467b6454d752808671a4609f3c49a67023c9ca167e6c6f4a544a10":"RSA_PKCS_V15:SIG_RSA_SHA384:1536:16:"402631f3cddfb02c4db95e8afb61b7626bd787a50e12e8567c9702bfdf47a589
RSA PKCS1 Verify v1.5 CAVS #32
depends_on: POLARSSL_SHA4_C
rsa_pkcs1_verify:"da9505809c926d8e018157ddf5d21d65f8f01e965f5b15b4f2f9723f6ec91e33797f25d531d1e66ee100b285968f4924b1092b4e3a5b597b0a929edce4a46f320237d7adbdb3c2d9487e08866b95bbae83ac7d7db55334a2400414f888e2bf6259539a2da8ba57a4056": RSA_PKCS_V15: SIG_RSA_SHA384:1536:16:"a59d97b269b102b7be684e5e528db79992e63231779c0879b860e26383b53efedbadc1a59c27499d6d2c67799397aeab66b93e198a0832022b98bfaed8bb789c0721e0f6e3b63c4a55a9169e890ce897451919b9ec99799aa880f5250b589fc12dadcb16e406a39bc3b366392da5354ba453bde5e4c89bdc82d0ffef79502a3e53080819c13e86c4c1777a743abel1db36fafaed6f2885ec922ff5fdeacbe8c6d027f2e959c3075011b382e84c2b7b83b8f2fe6fda0223e3c8302d915f9ac7bcdce95e9ae937363d9198ae5b1f6468c0db5b536a2f9185de2a7057575b7":0

RSA PKCS1 Verify v1.5 CAVS #33
depends_on: POLARSSL_SHA4_C
rsa_pkcs1_verify:"d0cd3036c65b3caac54822ea9f1e5176e820423268876dec0b62e2ab6d1902b37b023ac6b7c6b823c6ef5447b87729f85f791090dd06c0e6628ac06de1e4e00b8e2ab9a192770de92adaa427ace02ff5710af017676c06e8f3e72d0839ab201395625f5c0db8641ce19d7711212de61733262e6446760256767760ce7169f9d143588a9873d405f57d58b806d0dd49a19a1762c36635e46466f11a30cd293a60460703dc051d5b28c660b0f58bf85d34d495f6a4157f172b8abe5f6d":16:"11":57eddd056df084a0a25c28ff6d254e3232935a5c2d922482b4db477e0afa6c653b3ce454a9168e90ce897451919b9ec99799aa880f5250b589fc12dadcb16e406a39bc3b366392da5354ba453bde5e4c89bdc82d0ffef79502a3e53080819c13e86c4c1777a743abel1db36fafaed6f2885ec922ff5fdeacbe8c6d027f2e959c3075011b382e84c2b7b83b8f2fe6fda0223e3c8302d915f9ac7bcdce95e9ae937363d9198ae5b1f6468c0db5b536a2f9185de2a7057575b7":0

RSA PKCS1 Verify v1.5 CAVS #34
depends_on: POLARSSL_SHA4_C
rsa_pkcs1_verify:"59779fd2a3e56604c4f1e6b760aabfecd7b8e7a172d2dbfa4646e93d0419b84846688da7445f25ba19db82444ed5c5f8539cf772cc13232b83169390db28a43b4e4e0f386568ff87447746bc762feac2d609e31439519a5468082055905ab6ff8a9667640b93c495edd88704461aea2b345f6b2a6930243870": RSA_PKCS_V15: SIG_RSA_SHA512:1536:16:"a59d97b269b102b7be684e5e528db79992e63231779c0879b860e26383b53efedbadc1a59c27499d6d2c67799397aeab66b93e198a0832022b98bfaed8bb789c0721e0f6e3b63c4a55a9169e890ce897451919b9ec99799aa880f5250b589fc12dadcb16e406a39bc3b366392da5354ba453bde5e4c89bdc82d0ffef79502a3e53080819c13e86c4c1777a743abel1db36fafaed6f2885ec922ff5fdeacbe8c6d027f2e959c3075011b382e84c2b7b83b8f2fe6fda0223e3c8302d915f9ac7bcdce95e9ae937363d9198ae5b1f6468c0db5b536a2f9185de2a7057575b7":0

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RSA PKCS Sign #1 (SHA512, 1536 bits RSA)

depends on: POLARSSL_SHA4_C

rsa_pkcs1_sign:"59779fd2a39e56640c4fc1e67b60a9ffecd788ed7ad2b2da464e93d04198d48466b8da7445f25bfa19d1b82444ed5c8f539ef772cc132b48316993d09b28a43c4ee0f038f656f8fc87447746ec72fefa2d6d9e3143a915ac468802880590a68e88fa96674b093c495edd870444ea2b345ebbb2ad6930aca8d03f870:" RSA_PKCS_V15:SIG_RSA_SHA512:1536:16:"c8c67df894c882045ede26a9008a9b0eaa4d072077d78c71d42511c9d3981d8d8e81b91676da4040546ec39f1057f394a91b52f92293859021062929e829b59d5b8c959948af904a536c8d939d83014292d3498139ad1519908815ad55d0731fe3a304e9d16:"b31f45907e0c4a13e5379aad702ed160999b7fa0808434aaed0a0cbab391014d2ce56c66b6fd02752195faa8eb061077e03902814d8899cf9a359b3a8b2a7c97e9c55db975b49a2215e6ba835e560a6a45d19d31795f89a7517584e1643":0

RSA PKCS Sign #1 Verify

depends on: POLARSSL_SHA4_C

rsa_pkcs1_verify:"59779fd2a39e56640c4fc1e67b60a9ffecd788ed7ad2b2da464e93d04198d48466b8da7445f25bfa19d1b82444ed5c8f539ef772cc132b48316993d09b28a43c4ee0f038f656f8fc87447746ec72fefa2d6d9e3143a915ac468802880590a68e88fa96674b093c495edd870444ea2b345ebbb2ad6930aca8d03f870:" RSA_PKCS_V15:SIG_RSA_SHA512:1536:16:"e79a373182bfaa72220e357f72ad9468d482de59432e1b8bbab3a7dfeee138c9b15ee48781ab6640a8b60dca565019363d5565e9050d971246438220e3454e9e58e0f3947e056ce2554e21bf287e22098db3552158c4d2b495e5d1a3b8c3ed1a02f2a300ef6d8686ea751084e4d3fe24fd6ef2de28feb2e3874adb2f5199451082d6e9f2f462575a8185c6aa1f1fc6b6a363c5d71aeaba2103449eaf3845285291148d5f78d1646b8dc95bcc04082f9r798d948b0e7d4e80b60595f8a7517584e1643":0

RSA PKCS Sign #2 (SHA256, 2048 bits RSA)

depends on: POLARSSL_SHA2_C

rsa_pkcs1_sign:"59779fd2a39e56640c4fc1e67b60a9ffecd788ed7ad2b2da464e93d04198d48466b8da7445f25bfa19d1b82444ed5c8f539ef772cc132b48316993d09b28a43c4ee0f038f656f8fc87447746ec72fefa2d6d9e3143a915ac468802880590a68e88fa96674b093c495edd870444ea2b345ebbb2ad6930aca8d03f870:" RSA_PKCS_V15:SIG_RSA_SHA256:2048:16:"e79a373182bfaa72220e357f72ad9468d482de59432e1b8bbab3a7dfeee138c9b15ee48781ab6640a8b60dca565019363d5565e9050d971246438220e3454e9e58e0f3947e056ce2554e21bf287e22098db3552158c4d2b495e5d1a3b8c3ed1a02f2a300ef6d8686ea751084e4d3fe24fd6ef2de28feb2e3874adb2f5199451082d6e9f2f462575a8185c6aa1f1fc6b6a363c5d71aeaba2103449eaf3845285291148d5f78d1646b8dc95bcc04082f9r798d948b0e7d4e80b60595f8a7517584e1643":0

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r rsa_pkcs1_sign: "59779fd2a39e56640c4fc1e67b60aefce7d7ae7ad2bdfaa46e93d041984d846688da7445f25bfa19d
b2844eedd5c8f539cf772cc132b843169d930db28a43bc4ee0f038f6568ffe87447746cb72efac2d6dd90ee3143a915ac46
88028805905a6eb88fa96674b093c495edd8704461ea2b3dfb2ad6930ad50238ff070809591."
rsa_pkcs1_verify: "59779fd2a39e56640c4fc1e67b60aefce7d7ae7ad2bdfaa46e93d041984d846688da7445f25bfa19d
b2844eedd5c8f539cf772cc132b843169d930db28a43bc4ee0f038f6568ffe87447746cb72efac2d6dd90ee3143a915ac46
88028805905a6eb88fa96674b093c495edd8704461ea2b3dfb2ad6930ad50238ff070809591."

RSA PKCS1 Sign #3 Verify
depends_on: POLARSSL_SHA2_C

rsa_pkcs1_verify: "59779fd2a39e56640c4fc1e67b60aefce7d7ae7ad2bdfaa46e93d041984d846688da7445f25bfa19d
b2844eedd5c8f539cf772cc132b843169d930db28a43bc4ee0f038f6568ffe87447746cb72efac2d6dd90ee3143a915ac46
88028805905a6eb88fa96674b093c495edd8704461ea2b3dfb2ad6930ad50238ff070809591."

RSA PKCS1 Sign #4 (SHA384, 2048 bits RSA)
depends_on: POLARSSL_SHA4_C

rsa_pkcs1_sign: "59779fd2a39e56640c4fc1e67b60aefce7d7ae7ad2bdfaa46e93d041984d846688da7445f25bfa19d
b2844eedd5c8f539cf772cc132b843169d930db28a43bc4ee0f038f6568ffe87447746cb72efac2d6dd90ee3143a915ac46
88028805905a6eb88fa96674b093c495edd8704461ea2b3dfb2ad6930ad50238ff070809591."

RSA PKCS1 Sign #5 Verify
depends_on: POLARSSL_SHA5_C

rsa_pkcs1_verify: "59779fd2a39e56640c4fc1e67b60aefce7d7ae7ad2bdfaa46e93d041984d846688da7445f25bfa19d
b2844eedd5c8f539cf772cc132b843169d930db28a43bc4ee0f038f6568ffe87447746cb72efac2d6dd90ee3143a915ac46
88028805905a6eb88fa96674b093c495edd8704461ea2b3dfb2ad6930ad50238ff070809591."

RSA PKCS1 Sign #6 (SHA512, 2048 bits RSA)
depends_on: POLARSSL_SHA6_C

rsa_pkcs1_sign: "59779fd2a39e56640c4fc1e67b60aefce7d7ae7ad2bdfaa46e93d041984d846688da7445f25bfa19d
b2844eedd5c8f539cf772cc132b843169d930db28a43bc4ee0f038f6568ffe87447746cb72efac2d6dd90ee3143a915ac46
88028805905a6eb88fa96674b093c495edd8704461ea2b3dfb2ad6930ad50238ff070809591."

RSA PKCS1 Sign #7 (SHA1, 2048 bits RSA)
depends_on: POLARSSL_SHA7_C

rsa_pkcs1_sign: "59779fd2a39e56640c4fc1e67b60aefce7d7ae7ad2bdfaa46e93d041984d846688da7445f25bfa19d
b2844eedd5c8f539cf772cc132b843169d930db28a43bc4ee0f038f6568ffe87447746cb72efac2d6dd90ee3143a915ac46
88028805905a6eb88fa96674b093c495edd8704461ea2b3dfb2ad6930ad50238ff070809591."

RSA PKCS1 Sign #8 (MD5, 2048 bits RSA)
depends_on: POLARSSL_SHA8_C

rsa_pkcs1_sign: "59779fd2a39e56640c4fc1e67b60aefce7d7ae7ad2bdfaa46e93d041984d846688da7445f25bfa19d
b2844eedd5c8f539cf772cc132b843169d930db28a43bc4ee0f038f6568ffe87447746cb72efac2d6dd90ee3143a915ac46
88028805905a6eb88fa96674b093c495edd8704461ea2b3dfb2ad6930ad50238ff070809591."
RSA PKCS1 Sign #4 Verify

depends_on:POLARSSL_SHA4_C

RSA_PKCS1_verify:"59779fd2a32fbbf585f937cf7722c132b48316939f0db8a4eac4e00f2e83f5686e8781774746b72f6ecfac2d690e0e314391a5e4680828059056a8eb8f8a9667440b3495edd82844617a6ba2b3456bb03d0a3823f78059e927486e376362555db0add02401397db7c1b4e4f0be66c8369d2da846e5c95959dd1d54e38290979a7e314ce8b28446a8be68903617fa6f648ed283d796a32fa164d0a78c3d635459141486c3b0961a7bc41ca2034f":16":"30 dac69226e5126eeb33f1dc247a35109bba3845c7ad5560e666624bf1c103d94686a317999e923c9dec1b119b5b5d4f8bb4680a8df599a8620d3e109168b04e54d3b84bc82e6cb17172f49e3f767154492b752be10edca46f333485131be8f3e6853b7ada4b3f0da28279796f374a81c47f8eb940fade0d5637cb7ee9e423f7ec6d2c12223ef457c3e8cccc6d655e239735f75f85f840e99f00e8c7fa1701f9d431b3029a1f769cb2821a8635d7578e174b1130659f30583434090c9cb1214741a116dc5102d6e64a149b6ae34e3cd75928049db78042c8e980af3seae2774e2485bfc217401a11c8f5deeeaa6242db8e":0

RSA PKCS1 Sign #5 (MD2, 2048 bits RSA)
depends_on:POLARSSL_MD2_C

RSA_PKCS1_sign:"59779fd2a32fbbf585f937cf7722c132b48316939f0db8a4eac4e00f2e83f5686e8781774746b72f6ecfac2d690e0e314391a5e4680828059056a8eb8f8a9667440b3495edd82844617a6ba2b3456bb03d0a3823f78059e927486e376362555db0add02401397db7c1b4e4f0be66c8369d2da846e5c95959dd1d54e38290979a7e314ce8b28446a8be68903617fa6f648ed283d796a32fa164d0a78c3d635459141486c3b0961a7bc41ca2034f":16":"6cbb0e4019d64d5dcd248fa3446e5c81a7e6db79791b1999be75c7d3e7ae0820c443a120cd291f73cbbb315e19563a60ea7da34520159d96b8e5ac99f88dddb1f3ae35908abc151f3f7b07365aee6f0bdc40d0f35591868f136ae38aceb7c8d3be3
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RSA PKCS Sign #5 Verify
depends_on:POLARSSL_MD2_C
rsa_pkcs1_verify:"59779fd2a39e56640c4fc167b60aefeeccd78aed7ad2b34fd04e693d04198d484666db8da7445f25bfafa19d
9db2844edd5c8f539e7722c132b483169d390db28a3b4ce40e03f8656ff8e784747746e7b2efac26d90ec31439a15ac
4688028850905a68eb8f8a96674b903c495edd8704461eaa2b345ebfbbad6930ad8023f870":RSA_PKCS_V15:SIG_RSA_MD2:2048:16:
"b38ac65c81417f5c691470e851936a67bf94462812a931e12c05f7c0b06d9eed6db2224703b02e25f341592c4a8a417b62675f
d6f6948131e7b7969a892c4828b802888936a77af7a05fe6f9df9c6322a54683
638247b577445ec0d6b2765ce96c4ee45213204206db2ad45e98e1ea755388ba397149a5ac0fc12d7c53cbc12481d4a
8e2d401e63639004adb4304":0

RSA PKCS Sign #6 Verify
depends_on:POLARSSL_MD4_C
rsa_pkcs1_verify:"59779fd2a39e56640c4fc167b60aefeeccd78aed7ad2b34fd04e693d04198d484666db8da7445f25bfafa19d
b2844edd5c8f539e7722c132b483169d390db28a3b4ce40e03f8656ff8e784747746e7b2efac26d90ec31439a15ac
4688028850905a68eb8f8a96674b903c495edd8704461eaa2b345ebfbbad6930ad8023f870":RSA_PKCS_V15:SIG_RSA_MD4:2048:16:
"b38ac65c81417f5c691470e851936a67bf94462812a931e12c05f7c0b06d9eed6db2224703b02e25f341592c4a8a417b62675f
d6f6948131e7b7969a892c4828b802888936a77af7a05fe6f9df9c6322a54683
638247b577445ec0d6b2765ce96c4ee45213204206db2ad45e98e1ea755388ba397149a5ac0fc12d7c53cbc12481d4a
8e2d401e63639004adb4304":0
RSA PKCS1 Sign #7 (MD5, 2048 bits RSA)
depends_on: POLARSSL_MD5_C
rsa_pkcs1_sign: "59779fd2a39e56640cf4e1c67b60aeffceed78aeaf7ad2b9da46e93d04198d48466b8da7445f25bfa19d
b2b844ed5c8f539cf7723ec1223b483169d390db2aa84ec4ee0f038f6586ff8c87447746cb7f2eac2d6903e1343a915ac46
88028805905a68ebbf8a96674b093c495ed87804461eaa2b345eb7b2ad6930a1e082f3b80: RSA_PKCS_V5: SIG_RSA_MD5: 2048: 16: "b38ac65c8141f5f7596e14470e851936ab79f49cc6821a39ac12c05f7c0b06d6edefdad224703b02e25f3145299c4a8417b2675f6cd64f694813c7b97f69a892c428b8308eb0bad42e4666ace68903617af6681f4babf1b1ce8e4b0420d3c7f1d4e544346cb54a23ee0f07c9080509d7c98286e673b8f363325apsaba02d201039a7beb14ecf0b0
be683692d2a486ee595599dd5d15e9b24190695eaefdbadb3253527567261cd0909ac9f3c3b8b8428cb448de4715db
8130c94828eb22954d391ce0daadb5351f97a3810c1f737db1458b97daed4209c501e61d664d2d56fda8c2839d9575222
793147d60a7c83d6f34559414486c3b906137b4a41320243": "16:"",b060e64d4f4af6f363a4344e14ae2d7bc7e37c3ce505a46e38f36f54796b3b7891b1a1889f7622102cb4a6c7364556555e64709793431d404f086710e979ec8ecbe2eb16ed53e05848ab733d95efed2f0252a691e810c17af57d32d296374ce9b17a7fe046856677f45d668a386c8a433ffbb56d3bfbf43a489ed951b1e9ac1be1994c19e614645635f31354315a3105c2de5415255141768cexcf3cc97e095050111
2293c30449a34964947ae1b23e815b7edf93c864a428b2ab9829b93d7bb952559a8ef79687ab673e231bec1213d8
8edc632637b58cd2bd69c51f6f6bf894cf319216178b1e696f75ced436653dc2e8b2a00a17984207": 0

RSA PKCS1 Sign #7 (MD5, 2048 bits RSA)
depends_on: POLARSSL_MD5_C
rsa_pkcs1_sign: "59779fd2a39e56640cf4e1c67b60aeffceed78aeaf7ad2b9da46e93d04198d48466b8da7445f25bfa19d
b2b844ed5c8f539cf7723ec1223b483169d390db2aa84ec4ee0f038f6586ff8c87447746cb7f2eac2d6903e1343a915ac46
88028805905a68ebbf8a96674b093c495ed87804461eaa2b345eb7b2ad6930a1e082f3b80: RSA_PKCS_V5: SIG_RSA_MD5: 2048: 16: "e79a373182bfaa722eb035f772d2a9464bd842de59432c188b1bb3a7deafe181c98915ee487861ab66e4a0bdcda501552758e850795a9ea41c320610c0d64b04d71ed7f73fa4105d0fb99ab9da18c
e1828a44f4975beaa90ba9a1438a27a28e97ac8300ef37383411d1bbd6607d6979ac05042a4fd17": "16:"c6749cbeb0db8
5a177672d4728a82b2392b2e4d3b3861de5c0d50551ba4e46d21f757c24e2efaa15c61941b93b3ace734007405c89eb9
b48e7e7414424e2d4a4c6903d130b3c58677bf18a25995299213963294292f4e044c3edaba3f1399b291
2e1ca2ee3043fbbf67d116f86f88ee483d163b343e61564ad3e89": "16:"b38ac65c8141f5f7596e14470e851936ab79f49cc6821a39ac12c05f7c0b06d6edefdad224703b02e25f3145299c4a8417b2675f6cd64f694813c7b97f69a892c428b8308eb0bad42e4666ace68903617af6681f4babf1b1ce8e4b0420d3c7f1d4e544346cb54a23ee0f07c9080509d7c98286e673b8f363325apsaba02d201039a7beb14ecf0b0
be683692d2a486ee595599dd5d15e9b24190695eaefdbadb3253527567261cd0909ac9f3c3b8b8428cb448de4715db
8130c94828eb22954d391ce0daadb5351f97a3810c1f737db1458b97daed4209c501e61d664d2d56fda8c2839d9575222
793147d60a7c83d6f34559414486c3b906137b4a41320243": "16:"",3bcf673c2b7fe2ec4e48b97c7a3716e16c6ee7419
RSA PKCS1 Sign #8 (Invalid padding type)

rsa_pkcs1_sign: 59779fd2a39e566404cf6e167b6a0effcecd78aed7ad2bdfaa46e93d04198d4846688da7445f25bfa19d8244edd5cf8539c7f772c132b483169d390db2a843bc4e00f038f6568ffce87447746cb2f2efac2d690ee3143a915ac4688082805905a6ede888a96674b093495edde87404461ee2a2b345ef6bba6d950aad80238f80:2:SIG_RSA_MDS:2048:16":e79a373183128b2a9d4ae9b4d882f02d3897432c5b8bbab37a38e31e89c915e4c87861a66b54a06b5ca560152578e8579016c929d99f0a5d64f4eac5d58508cb18164b0d71ed75f3a4105f0f0b9bard2a18ece182c8a4f4f975beaa90a9438a27a2ae89ace330ef733783414d1dbd46076979ace050424f1d":16":c6749cb0d8bc5a177767d4278ab22392292f4c1d3b38615d5055d1ca4bde6b82f17572c4ee2f5a15615919b3ace7340074e053b9b4e7e4714a11c441a4d41c5b2a9d93eb30c586b7f1b8af12a52995592dad1393be429add6547ee04becedaf13fa3b394124ee0f34fbb36d11f6f888ee483d16b34a11e65a3ed98":b38ac6658c14117f5c9e14470e851936a6b7f94ce882a19a1c2057c0b96d99edda2224703b02e25f314529c4a8417b62675f6c6d46b94813b7c9769a892c482b83b0fedef4ad2e6666ace8690317fa668f14bafb1ca8e04b040d3c7f161dc4543e6b54e2c3ee0f0c709780509d7c9832e673bf8ee363255adb0ad2d401039a7b4d14ec0febbc88369d2da486ec5959d1d54c9b2419096e4afdbab203b3525575626c1d0099a93c3b88428cb448ed4e715d181d03c9482c229543d3913e0ada5b3188c20c4b4b2a2f8517773a05464d49d5a5a3e4669bc0f9b692af535106aucf6b7577587546f8d49c5d5c29979da27b776dbc4ae7770bf64aa3bb27869af32d6c11e7517c7d6900a346e1a7ad96b6fe495d1d105a08864575e4f4e0f3bf5b7d25635a85e05a63380d66d65f8ab37d7e0a2b708c559849893117089a0b408c4628b859ea088b90b11deac5f68586f7e6099c1adb1d043beead4c126ff2902:POLARSSL_ERR_RSA_INVALID_PADDING

RSA PKCS1 Sign #8 (Verify (Invalid padding type)

rsa_pkcs1_verify: 59779fd2a39e566404cf6e167b6a0effcecd78aed7ad2bdfaa46e93d04198d4846688da7445f25bfa19d8244edd5cf8539c7f772c132b483169d390db2a843bc4e00f038f6568ffce87447746cb2f2efac2d690ee3143a915ac4688082805905a6ede888a96674b093495edde87404461ee2a2b345ef6bba6d950aad80238f80:1:SIG_RSA_MDS:2048:16":b38ac6658c14117f5c9e14470e851936a6b7f94ce882a19a1c2057c0b96d99edda2224703b02e25f314529c4a8417b62675f6c6d46b94813b7c9769a892c482b83b0fedef4ad2e6666ace8690317fa668f14bafb1ca8e04b040d3c7f161dc4543e6b54e2c3ee0f0c709780509d7c9832e673bf8ee363255adb0ad2d401039a7b4d14ec0febbc88369d2da486ec5959d1d54c9b2419096e4afdbab203b3525575626c1d0099a93c3b88428cb448ed4e715d181d03c9482c229543d3913e0ada5b3188c20c4b4b2a2f8517773a05464d49d5a5a3e4669bc0f9b692af535106aucf6b7577587546f8d49c5d5c29979da27b776dbc4ae7770bf64aa3bb27869af32d6c11e7517c7d6900a346e1a7ad96b6fe495d1d105a08864575e4f4e0f3bf5b7d25635a85e05a63380d66d65f8ab37d7e0a2b708c559849893117089a0b408c4628b859ea088b90b11deac5f68586f7e6099c1adb1d043beead4c126ff2902:POLARSSL_ERR_RSA_INVALID_PADDING

RSA PKCS1 Encrypt #1

rsa_pkcs1_encrypt: 4E636AF98E40F3ADFCFFCB69F84E80B9F:RSA_PKCS_V5:2048:16":b38ac65c81417f5c96e14470e851936a6b7f94ce882a19a1c2057c0b96d99edda2224703b02e25f314529c4a8417b62675f6c6d46b94813b7c9769a892c482b83b0fedef4ad2f8757773a05464d49d5a5a3e4669bc0f9b692af535106aucf6b7577587546f8d49c5d5c29979da27b776dbc4ae7770bf64aa3bb27869af32d6c11e7517c7d6900a346e1a7ad96b6fe495d1d105a08864575e4f4e0f3bf5b7d25635a85e05a63380d66d65f8ab37d7e0a2b708c559849893117089a0b4c82d8bbc589ea088b90b11deac5f68586f7e6099c1adb1d043beead4c126ff2902:POLARSSL_ERR_RSA_INVALID_PADDING
rsa_pkcs1_decrypt:"deadbeafdeadbeefedc8a9876";RSA_PKCS_V15:2048:16:"e79a373128bfa722eb035772a
d2a9464bd842de59432c18babba37dafe318c9b915ee487861ba665a40bd6cda560152578e5879016ce929df99e05b
4d64e4ca1d543850bca164b40d7feb7d3f3a10450df09b9ad2a18ec18228a4af49f75bea9a0b9a1438a27a8e97ac8330e
f377384141bd64607d6979auc050424f17:"e67c49bb6bd8c5a1777627d4274a8b223292bf64d3b8361d5c0d5055
a1b4e464d1217577c24ee2a51c5619419b393aee7340074c058e998a4e7e7414f42c1da4eccc5c2a91deeb30c586b7b
18af12a529595951a29d33e3492add6547e40beccedaf318fa3b9241e2e0343f6b36d116bf88fe4ee84316d3b4316e15
4ad3e89:"b38ac665c1814ff75c96e14470e851936a6bf794cc6281a9ac12c05f7c0b696ed6dada224703b02e2f53
154299c4a8417b62675fdcd6f46b94813ceb79769a89248283b0fe0a42e46668eace86903170af6e61f4abf1c8e84b
0420dc3c7f616454c46b54ce2ce0efe07980509d4799e2673f38635255ad0ad22401039a7bd1bc4efb0f6ec8693
d2a846e6c95959dd15d4c9e2b194906eafdbad203b335255765261cd0909aef93c3b88b842cb4b48de4715db1813d0c
948292c229543d391ce0ada5535197a3810c1173d7b1458979daed4209c50e16d642d5bfda8c2389375222793146
d0a78c3d4f3554914148c63b9061a7b4ca12a034f":16":"3.000:"4E636AF98E40F3ADCCF896984E80B9F:"POLARSSL_ERR_RSA_BAD_INPUT_DATA
RSA PKCS1 Encrypt #3 (Invalid padding mode)
rsa_pkcs1_encrypt:"4E636AF98E40F3ADCCF896984E80B9F":2:2048:16:"b38ac665c1814ff75c96e14470e851936a6bf794cc6281a9ac12c05f7c0b696ed6dada224703b02e2f53
154299c4a8417b62675fdcd6f46b94813ceb79769a89248283b0fe0a42e46668eace86903170af6e61f4abf1c8e84b
0420dc3c7f616454c46b54ce2ce0efe07980509d4799e2673f38635255ad0ad22401039a7bd1bc4efb0f6ec8693
d2a846e6c95959dd15d4c9e2b194906eafdbad203b335255765261cd0909aef93c3b88b842cb4b48de4715db1813d0c
948292c229543d391ce0ada5535197a3810c1173d7b1458979daed4209c50e16d642d5bfda8c2389375222793146
d0a78c3d4f3554914148c63b9061a7b4ca12a034f":16":"3.000:"4E636AF98E40F3ADCCF896984E80B9F:"POLARSSL_ERR_RSA_BAD_INPUT_DATA
RSA PKCS1 Decrypt #3 (Invalid padding mode)
rsa_pkcs1_decrypt:"a42eda41e56235666e7affaa77100197f657288a18b183e4820f0c37ce2ca456b90276d803e0bcb4de4a9698
8ef8d9231e1f94241400ed09844994ce86c32bd7edec37ec7f0c3d3bf8e55baeb2712afa09f5fc072a84eb3dace31849c
d6a084381523912bcb84ef4c2e3cd6idl8513d969b545acec827d2b0fdd5586bb7d4ce4f11d9d1646893e6a898d3
7879ec1ed95dc2240895a970bc01730979cde68546860bd25480176954fe96e16362d2ebf3d456035028890199e0f4
8db38642cb66a4181e028a443a504e8a284ce02b416b83367460874a505611d2134249d06e8ea831d523d47b1361
0b143c4efc43a6de9f0b08d2a951d503c6b:"POLARSSL_ERR_RSA_INVALID_PADDING"
RSA PKCS1 Decrypt #4 (Output buffer too small)

rsa_pkcs1_decrypt:“a42eda41e5623e6667e7aaa7100197f657288a1bf183e4820f0c37ce2c456b960278d6003e0bb
d4bea49699e8f8d92331e1f942414000d0984494948ec632d7cdebe7fe0c3d3bf6ae55baeh2712fa69f65f3c3027a8242b
3dace13849cd6a08f3185239112bcb84cf4e23ced6f1618531d69b65b4acec872d200d1fd556867b4d5cf0a11d691658
3fefa689d367d7f9e9fd59dced22408959a9740b0c7310f97f6cde8545660b254801769f54a9e9616362d6b3f4d5603502
8890199e0f48d3b6a2b614e1628a443a404f6ae284f9e314618b36376d4087e4505611d2134207d9f1e9b313
52d347b13610b413c4efc4a6de90b0d8a295d1d503b6":"RSA_PKCS_V5-20:48:16":"e79a373182bfaa722eb053772
ad2a9464bd4824de5943218b8b3a73d0fe3138c9b15e4e87861a665a040d6cd3a650152758e8579016929df99f0a5
b4d46eacf154d3850b184d40d17ed7f3fa4150f059d9fa21ae82489f75e9aa9e90a9b9a1348a27a928ac8330
ef37733843141db6d4067d6979ac504024df17":"c67649eb0bd8bc5a177672d4274a8b22392b2c4d3b8361d5d0d505
5a1be4d6821f757c24ee2a51561941b933ace7340074505e9bb48e7e74144f4214ac6c5b2a91de3c305b867f7b
b18af1a52b999592ad193d3e249ad567e4044be1d3f1a5b324e954424ef034bf67d1116f88e483d1b631e616
54a3de89":"e836bca8514f7f1f6ee14470e8159136a6b7f94e6c2a8139ac12c05f7c0b0d69ed6delld2240730b3e25f
31452f9ec4a817b62675f6d64f694813bc7b9769a892c4282b8308be0a42d4e6668ace86930617a6f681f4ab1f1c8e4
b0420d3c7161f64543b53e2cc3ee0cf0799f4e77c9826e637b5e86325550dadd042010397c0bd1be4c0f8ebfe6e835
9d2a0d88e3ec5593dd154c9eb2149096eafadbdb203b3525576256cd1d0909acfae3cb88b8428cb448de47151b183d0
c498292c925943d91c0eadab5353197fa3810e1173d74b1458979dade2490c50e160d64d2d5bd8e23893d7552279314
6d0a78c3dfe4f53549514184863b9061a7b4ca1a2034f":"3":"15:4"E636AF98E40F3ADCCFCB698F4E80B9F":POL
ARSSL_ERR_RSA_OUTPUT_TOO_LARGE

RSA Check empty private key
rsa_check_privkey_null:

RSA Check Private key #1 (Correct)
r
rsa_check_privkey:2048:16:0x80740343e08197287c584e55e0e01e9483d64a55500b938f667704f2722d6b862c60e5888493d8b34e97c0492e4b64e6668ace86930617a6f681f4ab1f1c8e4b0420d3c7161f64543b53e2cc3ee0cf0799f4e77c9826e637b5e86325550dadd042010397c0bd1be4c0f8ebf6e8359d2a86ec5593dd154c9eb2149096eafadbdb203b3525576256cd1d0909acfae3cb88b8428cb448de47151b183d0c498292c925943d91c0eadab5353197fa3810e1173d74b1458979dade2490c50e160d64d2d5bd8e23893d75522793146d0a78c3dfe4f53554914184863b9061a7b4ca1a2034f":"3":"15:4"E636AF98E40F3ADCCFCB698F4E80B9F":POL
ARSSL_ERR_RSA_OUTPUT_TOO_LARGE

RSA Check empty private key
r
rsa_check_privkey_null:

RSA Check Private key #1 (Correct)

RSA Check Private key #1 (Correct)
F078BC613E75CE25E08814E12461C7A1C189A70EB8138294298D141244C7A9DE31AB4F6D38B40B04D6353
CD30F77ADBF66BBDE41C7BE463C5E30AAA3F7BAD6CEE99506DEAAFA2F335C1B1C5C88B8ABB0D038
7EE0D1B4E7027F7F085A025CEDB5CCE18B88C0462F1C3C910D47C0D4AB":0
RSA Check Private key #2 (No P)
rsa_check_privkey:2048:16:"":16:"c6749cbb0db8c5a177672d4728a8b22392b2fc4d3b8361d5c0d5055a1b4e46d821
f757c24eef2a51c561941b93b3ace7340074c058c9bb48e7e7414f42c41da4cccb5c2ba91deb30c586b7fb18af12a5299
5592ad139d3be429add6547e044becedaf31fa3b39421e24ee034fbf367d11f6b8f88ee483d163b431e1654ad3e89":16:
"b38ac65c8141f7f5c96e14470e851936a67bf94cc6821a39ac12c05f7c0b06d9e6ddba2224703b02e25f31452f9c4a84
17b62675fdc6df46b94813bc7b9769a892c482b830bfe0ad42e46668ace68903617faf6681f4babf1cc8e4b0420d3c7f61
dc45434c6b54e2c3ee0fc07908509d79c9826e673bf8363255adb0add2401039a7bcd1b4ecf0fbe6ec8369d2da486eec5
9559dd1d54c9b24190965eafbdab203b35255765261cd0909acf93c3b8b8428cbb448de4715d1b813d0c94829c22954
3d391ce0adab5351f97a3810c1f73d7b1458b97daed4209c50e16d064d2d5bfda8c23893d755222793146d0a78c3d64f
35549141486c3b0961a7b4c1a2034f":16:"3":16:"77B1D99300D6A54E864962DA09AE10CF19A7FB888456BC26
72B72AEA52B204914493D16C184AD201EC3F762E1FBD8702BA796EF953D9EA2F26300D285264F11B0C83
01D0207FEB1E2C984445C899B0ACEBAA74EF014DD1D4BDDB43202C08D2FF9692D8D788478DEC829EB5
2AFB5AE068FBDBAC499A27FACECC391E75C936D55F07BB45EE184DAB45808E15722502F279F89B38C1
CB292557E5063597F52C75D61001EDC33F4739353E33E56AD273B067C1A2760208529EA421774A5FFFCB34
23B1E0051E7702A55D80CBF2141569F18F87BFF538A1DA8EDBB2693A539F68E0D62D77743F89EACF3B17
23BDB25CE2F333FA63CACF0E67DF1A431893BB9B352FCB":16:"9A66CF76572A71A17475794FA1C8C70D
987E581E990D772BB27C77C53FF1ECBB31260E9EDAFAEBC79991807E48918EAB8C3A5F03A600F30C6951
1546AE788EDF53168E2D035D300EDCD5E4BF3AA2A6D603EA0A7BD11E1C1089657306DF8A64E7F1BC6B
266B825C1A6C5F0FC85775F4CF7ACD63367E42EAFE46511D58AD6DFE0F":16:"844DBDD20925D9164F9A
1E2F707076C261CCA8337D0241392B38AE3C12342F3AC14F8FD6DF4A1C36839662BD0D227344CD55A32A
E5DBD2309A9A2B8A2C82BE6DDDDCE81D1B694775D9047AA765CA0C6E1BB8E61C8B7BE27ED711E8EE
2FEAD87F3491F76A6D2262C14189EACDFD4CEFE0BF9D0A5B49857E0ED22CBEB98DC8D45B":16:"4951A
7B174DF972C37BADCC38457B5EDD1F078BC613E75CE25E08814E12461C7A1C189A70EB8138294298D141
244C7A9DE31AB4F6D38B40B04D6353CD30F77ADBF66BBDE41C7BE463C5E30AAA3F7BAD6CEE99506D
EAAFA2F335C1B1C5C88B8ABB0D0387EE0D1B4E7027F7F085A025CEDB5CCE18B88C0462F1C3C910D47C
0D4AB":POLARSSL_ERR_RSA_KEY_CHECK_FAILED
RSA Check Private key #3 (No Q)
rsa_check_privkey:2048:16:"e79a373182bfaa722eb035f772ad2a9464bd842de59432c18bbab3a7dfeae318c9b915ee
487861ab665a40bd6cda560152578e8579016c929df99fea05b4d64efca1d543850bc8164b40d71ed7f3fa4105df0fb9b
9ad2a18ce182c8a4f4f975bea9aa0b9a1438a27a28e97ac8330ef37383414d1bd64607d6979ac050424fd17":16:"":16:"
b38ac65c8141f7f5c96e14470e851936a67bf94cc6821a39ac12c05f7c0b06d9e6ddba2224703b02e25f31452f9c4a841
7b62675fdc6df46b94813bc7b9769a892c482b830bfe0ad42e46668ace68903617faf6681f4babf1cc8e4b0420d3c7f61d
c45434c6b54e2c3ee0fc07908509d79c9826e673bf8363255adb0add2401039a7bcd1b4ecf0fbe6ec8369d2da486eec59
559dd1d54c9b24190965eafbdab203b35255765261cd0909acf93c3b8b8428cbb448de4715d1b813d0c94829c229543
d391ce0adab5351f97a3810c1f73d7b1458b97daed4209c50e16d064d2d5bfda8c23893d755222793146d0a78c3d64f3
5549141486c3b0961a7b4c1a2034f":16:"3":16:"77B1D99300D6A54E864962DA09AE10CF19A7FB888456BC267
2B72AEA52B204914493D16C184AD201EC3F762E1FBD8702BA796EF953D9EA2F26300D285264F11B0C830
1D0207FEB1E2C984445C899B0ACEBAA74EF014DD1D4BDDB43202C08D2FF9692D8D788478DEC829EB52
AFB5AE068FBDBAC499A27FACECC391E75C936D55F07BB45EE184DAB45808E15722502F279F89B38C1C
B292557E5063597F52C75D61001EDC33F4739353E33E56AD273B067C1A2760208529EA421774A5FFFCB342
3B1E0051E7702A55D80CBF2141569F18F87BFF538A1DA8EDBB2693A539F68E0D62D77743F89EACF3B172
3BDB25CE2F333FA63CACF0E67DF1A431893BB9B352FCB":16:"9A66CF76572A71A17475794FA1C8C70D9
87E581E990D772BB27C77C53FF1ECBB31260E9EDAFAEBC79991807E48918EAB8C3A5F03A600F30C69511

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RSA Check Private key #4 (No N)

RSA Check Private key #5 (No E)

POLARSSL_ERR_RSA_KEY_CHECK_FAILED
RSA Check Private key #6 (No D)
rsa_check_private: 2048: 16: e79a373182bfaa722eb03f772ad2a94f6bd842d5e943216bba37da7e6ae318c9b15ee48878ab665a0b6d6ca560152578e8579016c929df99e0a5b464efca1d5a385b046b79e4f416b430d7ed7f4a015050f0b99
9ad2a181ec182e8a4af9f7e6beaa09a01483a2a7a38ee7ac383f3377a2d646076979ac050424df16: 17: a6c749eabdd8c5aa7177672d47a28f3db38fd3615d955a2b3a466d621215757c226ae00ad21bf7985af03a6000f30c69511546ae788edf5316e3205d030ed5ce64bfe3a22a6d6030ea47a1c806537592a0f9814e8e19086edf90d772b7277535fffee3cbb3260e9edfa7e6889ab8c3f5a0f30c69511546ae788edf5316e3205d030ed5cded65e4bf3a2a6d6030eaa7b1d1e1c1089653706df8a64e7f1b6b266b825ca6c5f0c85775f4c79ac636fe42eaf6511d58ad6def0f: 16: 844ddbd20925d916f9a1e2f7070762c61ca8338732d41932b8a3e12342f3ac148f6d64f4a1c6389662b20272344cd55a32a5e5db320909a28a82ca82be66ddac81d861b94779d40a7765c0e1b8717ebe2771d1ee62af8ed2890d4b04d353 cd30f77adb66bbde41c7e463c5e30aaa3f7bad6ceee99506deaaaf23351b1c5c888a8bb30d387ee0d18b4e707ff0850a25cedb5ccee18b88c0462f1c3c910d47c0d4ab: POLARSSL_ERR_RSA_KEY_CHECK_FAILED

RSA Check Private key #7 (No DP)
rsa_check_private: 2048: 16: e79a373182bfaa722eb03f772ad2a94f6bd842d5e943216bba37da7e6ae318c9b15ee48878ab665a0b6d6ca560152578e8579016c929df99e0a5b464efca1d5a385b046b79e4f416b430d7ed7f4a015050f0b99
9ad2a181ec182e8a4af9f7e6beaa09a01483a2a7a38ee7ac383f3377a2d646076979ac050424df16: 17: a6c749eabdd8c5aa7177672d47a28f3db38fd3615d955a2b3a466d621215757c226ae00ad21bf7985af03a6000f30c69511546ae788edf5316e3205d030ed5ce64bfe3a22a6d6030ea47a1c806537592a0f9814e8e19086edf90d772b7277535fffee3cbb3260e9edfa7e6889ab8c3f5a0f30c69511546ae788edf5316e3205d030ed5cded65e4bf3a2a6d6030eaa7b1d1e1c1089653706df8a64e7f1b6b266b825ca6c5f0c85775f4c79ac636fe42eaf6511d58ad6def0f: 16: 844ddbd20925d916f9a1e2f7070762c61ca8338732d41932b8a3e12342f3ac148f6d64f4a1c6389662b20272344cd55a32a5e5db320909a28a82ca82be66ddac81d861b94779d40a7765c0e1b8717ebe2771d1ee62af8ed2890d4b04d353 cd30f77adb66bbde41c7e463c5e30aaa3f7bad6ceee99506deaaaf23351b1c5c888a8bb30d387ee0d18b4e707ff0850a25cedb5ccee18b88c0462f1c3c910d47c0d4ab: POLARSSL_ERR_RSA_KEY_CHECK_FAILED
RSA Check Private key #10 (Incorrect)

rsa_check_private:2048:16:"7e9a37331b2fa7a22e06357f772a2d9a46b8d42e59432c18b9ba3a7dfeeae318e9b915ee8487b1ab65a40b6dcada50615257e8579016c929d99f9e0a5b5d674ecfa1d5435805b8c164b40d71ed7f3fa4105d0f0b9b9

9ad2a18ce182e8a4f49795beaa909b1438a2a7e2897eac8330ef737834141dbd64607d69799ac005424df1d:16:"c67499eb08c5a1777672472a8b2392292fd43b38615c5d0555a1be468d211757c2eef2ae51c56194193b3ace734007
4c508cb9b48e7c7414f42c414dc4cccb5ca2b91de30c5b667b1ba1af25995592ad1393be429ad465807404be6cedaf3
1f3a3b93e2c4e034bfe3671116f888e483d163b43e16164ad3e89:16:"b38acie6c5141715f56c14470e851936a4b794f66c82a39e12c05fc7b06ed69da22247030b2e25f143582fca4817b62675fd6edfd498b413cbe79b96892c482b8380ff6f042e6668ace8690317df66f814ffbafe8c4b0403d3f7614c54343cnb5e42e3cee0c70908509d79c98
2667cb38632552da8a0dd2401039a7b61d44cefb6ce8369d2ad84ee6c595997d5d4c9b49219096efeadbab20335
25576261cd09af09c3bc8b838a2cab44de4715db1613d08429229543d91ce0add5531f97a381e11757db145
8b97داء4209c5e106d4dd6fb3adac832939755222973146d0a78c3d6f453559414863cb096a7b4ca0134df:16:"3:16":\\"77BD199300D6A545E864962D0A910E1CF19A7F8884865BC26727278AE2A5B204914493D16C18A42D201EC3F762E1FBC8702BA796E9593D9AE2F2030D285264F11BC8301D02D0F7EB81C92445C89909ABECA
AA74EF014D1DD4BBD43D3C028C03F28F962D8788478DEC829EB52A5BE068FDBAC499A27FACECC
391E7C93CD55F07B7B345E184DAB45808E156272250F27F989838C1CB292557E056359F752C7D61001EDC3
3F4739353E3E56AD23B6097A2762020832EAA241774A4F05CCB3423B1E00517702A5D80CB2F1415691F8
87F8BF5F3AA1D8AEDBBE839539F6E8D0D77743F89AECFB31723B25E2F333FA6CAFC0E67DF1A431893BB93B352FBa16":\\"9A66CF767527A1A17475794F1A8C7C0D987E581E900D772BB27C77753F5E1ECB
B31260E9EFAEAEBC9991807E4819EAB8CA35F0A600F6C95119541A6878EDDFS31618E2DE03D500DEC
D5E4BF3AA2AD6D03A0A7B7D11E1C0896579306DF8A464E7F1BCB6B26B251CA6C5FC08775F4CF7ACD
E81D1B6947759D0471A765CA0C6E1BBB8E61C8B7BE27ED711E0EE2FEAD87F3491F76A6D2262C14189EACDFD4CEF0BF9D0A5B9857E0ED22C8E89D8C45B:16":"POLARSSL(ERR_RSA_KEY_CHECK_FAIL)

LED
RSA Check Public key #1 (Correct)
rsa_check_pubkey:16:38ac63ce8141f75c96e14470e851936a67bf94cc6821a39ac12c05f70b06d96edda2224703
b02e25f31452f9e4a8417b62675fd6d46b94813bc7b9769a982c482b830bfe0ad42e46668aae6890361fa668f14ba
bf1c8ce4b0420d3c7f1f61dc454346b54e2c3ee0fc97080590d79c9826e673bf8363255adb0add2401039a7bced1b4efc0f
be6ec8369d2a486eeec59595dd1d54c9b2149096eaebdb203b35255765261cd9090ac93c3b8b842cb448de4715d
1b813d0c94829c229543d391c0eadbab55159f7a3810cf1f37d7b1458b97ead4209c50e160d64d2d5b8da8c23893d7552
227931460da78c3d64f355549141846c3b9061a7b4c1a2034f:3"=":0

RSA Check Public key #2 (Even N)
rsa_check_pubkey:16:38ac63ce8141f75c96e14470e851936a67bf94cc6821a39ac12c05f70b06d96edda2224703
b02e25f31452f9e4a8417b62675fd6d46b94813bc7b9769a982c482b830bfe0ad42e46668aae6890361fa668f14ba
bf1c8ce4b0420d3c7f1f61dc454346b54e2c3ee0fc97080590d79c9826e673bf8363255adb0add2401039a7bced1b4efc0f
be6ec8369d2a486eeec59595dd1d54c9b2149096eaebdb203b35255765261cd9090ac93c3b8b842cb448de4715d
1b813d0c94829c229543d391c0eadbab55159f7a3810cf1f37d7b1458b97ead4209c50e160d64d2d5b8da8c23893d7552
227931460da78c3d64f355549141846c3b9061a7b4c1a2034f:3"=":0

RSA Check Public key #3 (Even E)
rsa_check_pubkey:16:38ac63ce8141f75c96e14470e851936a67bf94cc6821a39ac12c05f70b06d96edda2224703
b02e25f31452f9e4a8417b62675fd6d46b94813bc7b9769a982c482b830bfe0ad42e46668aae6890361fa668f14ba
bf1c8ce4b0420d3c7f1f61dc454346b54e2c3ee0fc97080590d79c9826e673bf8363255adb0add2401039a7bced1b4efc0f
be6ec8369d2a486eeec59595dd1d54c9b2149096eaebdb203b35255765261cd9090ac93c3b8b842cb448de4715d
1b813d0c94829c229543d391c0eadbab55159f7a3810cf1f37d7b1458b97ead4209c50e160d64d2d5b8da8c23893d7552
227931460da78c3d64f355549141846c3b9061a7b4c1a2034f:3"=":0

RSA Check Public key #4 (N exactly 128 bits)
rsa_check_pubkey:16:fedcba9876543210deadbeefcafe4321:3"=":0

RSA Check Public key #5 (N smaller than 128 bits)
rsa_check_pubkey:16:7edcba9876543210deadbeefcafe4321:3"=":0

RSA Check Public key #6 (N exactly 4096 bits)
rsa_check_pubkey:16:00b38ace65ce8141f75c96e14470e851936a67bf94cc6821a39ac12c05f70b06d96edda2224703
b02e25f31452f9e4a8417b62675fd6d46b94813bc7b9769a982c482b830bfe0ad42e46668aae6890361fa668f14ba
bf1c8ce4b0420d3c7f1f61dc454346b54e2c3ee0fc97080590d79c9826e673bf8363255adb0add2401039a7bced1b4efc0f
be6ec8369d2a486eeec59595dd1d54c9b2149096eaebdb203b35255765261cd9090ac93c3b8b842cb448de4715d
5d1b813d0c94829c229543d391c0eadbab55159f7a3810cf1f37d7b1458b97ead4209c50e160d64d2d5b8da8c23893d7552
52227931460da78c3d64f355549141846c3b9061a7b4c1a2034f:3"=":0

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RSA Check Public key #7 (N larger than 4096 bits)
r rsa_check_pubkey:16:"01b38ae6c8141f7f5c6e14470e85790859079c9826e673bf8363255adb0add2401039a7b7c1458b97d94a209c50e160d64d2d5bfda&8c3893d75522279314607a78c3d6f35549141486ec3b0961a7b4c1a2034f";16:"3":0

RSA Check Public key #8 (E exactly 2 bits)
r rsa_check_pubkey:16:"fedcba9876543210deadbeefcafe4321":16:"3":0

RSA Check Public key #8 (E exactly 1 bit)
r rsa_check_pubkey:16:"fedcba9876543210deadbeefcafe4321":16:"1":POLARSSL_ERR_RSA_KEY_CHECK_FAILED

RSA Check Public key #8 (E exactly 64 bits)
r rsa_check_pubkey:16:"fedcba9876543210deadbeefcafe4321":16:"0":0fedcba9876543210

RSA Check Public key #8 (E larger than 64 bits)
r rsa_check_pubkey:16:"fedcba9876543210deadbeefcafe4321":16:"1":POLARSSL_ERR_RSA_KEY_CHECK_FAILED

RSA Private (Correct)
rsa_private:"59779fd2a39e566404cfe167b60aaffecc7ead72bd2fa46e93d041984846b68da7445f25bfa19db2844edd5c8f3593cf7727c132b4831693d90db28a43bc4e00f381f568ffe87447746cb2f6fac2d6df90ee314a915ac4648802880590a68e88f9a676034958dd704461eaa2b3453e5b2ad6930acd8023f870248:16:"e79a373182ba722eb035f7772ad2a94b6ad842ed5943c218bbab3a7dfae318e9b915ee487361ab665a40bd6ca560152576e85790169e29df99fa05b4d646efca1d543850bc8164b40d71ed7f3afa405df09bb9ad2a18ce128a4af4f79bb9eaa9fb09a1438872a72897ac3830e43738341441d64607d0979ace050424df17":16:"e6749cb0db0b8ca51776727428a8b23292f2c43db8361d5cd5055a1ba4e244d0bf817f57c24eef2a51c561941b93bace7304074c5089bc8e47144f424c1d4aca4c90e29a1d0eb30c58f67b18af12a52995592ad139db3e249ad06457e04b4ceceda3f13a93b921e24ef034fbbf671df16b8ff8eea483d163b34e165a4e389":16:"b38ac65c8141f7f5c6e14470e85790859079c9826e673bf8363255adb0add2401039a7b7c1458b97d94a209c50e160d64d2d5bfda&8c3893d75522279314607a78c3d6f35549141486ec3b0961a7b4c1a2034f";16:"3":48ce62658d82be10737bcd53579a15bc826
RSA Private (Data larger than N)

rsa_private="b38ac65c8141f7f5c96e14470e851936a67bf94cc6821a39ac12c05f7c0b069d6eddb2224703b02e25f314529c4a41lb762265f6edcd4698431c979697a4288b28gf0a624e46668ae689936171fa668f14f4bbf15c84e3b0b402d3c7f61dc45436cb654e2ce3ceef0c70988509d79ce9826673bf83632555abded002403197b7c14ef00fece8ec369d2da486eef559599dd1d54c9b2419096eafdbadb03235525756256c1d0909af93c3bb8842cb8448de4715db1813d0c94829c22954391c0eabdb53519f7a3801c17f37db14589b9daed4209c05e16604d62df5da6e239895752273914360a783c64d655459141486cb30961a7bc41a3034f"":"2048.16":"e79a373182bfaa722be035f772ad2a94646b842d4e59432e18bbab3a7dfae318c99b15ee487861ab665a40db6dec3a60515278e8579016c929df99eaf05bd4e6fca7d53455805bce81b40d471021f3a410fd0fbb9ad2a1ae2e182ca4af49f75beaa90af1438a27a28e287ac8307373833414d1db64d61b079a9c054024fd17":"64769ebbd0c85a117767d47278ab22392b2fc4d3b8381d5c0d5055a1be4ed6d821f757c24eeff2a51c561941b93bb3c7e3400740c589cb8417b62675fd6cd646b94813bc87b9769a894282b830fe3e46d6668ae68903617afa668f14f4b1c8e40b042dc3f761dc45435c6b542ce3e0cf0c79b526563863b2eb13dd0204109b7c1db4ec0f6bece8369d2e070a0025e582aec7d01b8a2a0d1fa6a8d3bb3a301566084b7fb142998a2a0d28014b8a0498ee7d9d4e5d55cc424c6a5f0167a679decc8":"POLARSSL_ERR_RSA_BAD_INPUT_DATA"

RSA Public (Correct)

rsa_public="59779fd2a39e56640c4f1c67b6af60eaeccf78ad7ad2bdf4ae493d0198d48466b8da744525fba19db244d50e8519c727e32483169d390dbb2a43bc4e40f83658f6f8cf8747746cb72feca26d900ee3143aa915ac68802880590a668ba96676b93c495edd870446e1e22a34b2eb9a6d902d8038780729c552279346d078c3d6f5549141863c0b961a4c41a3034f"":"3":"1f5e927c13ff2310909af93c3bb8842cb8448de4715db1813d0c94829c22954391c0eabdb53519f7a3801c17f37db14589b9daed4209c05e16604d62df5da6e239895752273914360a783c64d655459141486cb30961a7bc41a3034f"":"605baf947d2ce49e4f6a0df9b4a43ae318d5bf8ed0b4aba57a37bf090ce5e9c5cee8b70a25b1c7580f39802dfe2020b870d0234820d70a7eafabdc45862c0e3965a5d79099141953eb1ff6b6d9019711b5789e62b1a2bcbb03a399af7a7e28146fe96c6d032723793e5be85fbbaf9afceb89b7db3050604a24f3d3a404a6c003781a5394a06259de84f13322a2de9358a4e369b87e32786bf73d03b4e4b77b375506705ad5548353a11affacc9fb25be79a571be38c3c7a6f0d470056683f848ba544b3b1d108a120b1a1af6a8d3bb3a301566084b7fb142998a2a0d28014b8a0498ee7d9d4e5d55cc424c6a5f0167a679decc8":"POLARSSL_ERR_RSA_BAD_INPUT_DATA"
rsa_public:"b38ac65c8141f75f59c6e14470e851936a67bf949ce6821a39ac12c05f7c0b06d9e66dbda2224703b02e25f314529fc4a8417b62675fd6c64f694813bcb79769a892e482fb830bfe0ad42e46686ace86903617aaf68f14ba0ff33c8e4b0420d3ce7f61de45434e6b542e3ee0fc07980590979e9826e73bff363255adb0ad2401039a7bc1b4ece0f0be6ec8369d2da48eeec59599dd1d54c9b24190965eafdbad203b35255765261cd0999acfe3c3bb88428cbcb448de4715db1813dd094829c22543d391ceadab5351f97a38101cf73db1458b97daed2409c0e16d064d25bfda8c23893d75222793146d0a78c3d64f35549141486ec3691a7b4c1a2034f";2048:16:"b38ac65c8141f75f59c6e14470e851936a67bf949ce6821a39ac12c05f7c0b06d9e66dbda2224703b02e25f314529fc4a8417b62675fd6c64f694813bcb79769a892e482fb830bfe0ad42e46686ace86903617aaf68f14ba0ff33c8e4b0420d3ce7f61de45434e6b542e3ee0fc07980590979e9826e73bff363255adb0ad2401039a7bc1b4ece0f0be6ec8369d2da48eeec59599dd1d54c9b24190965eafdbad203b35255765261cd0999acfe3c3bb88428cbcb448de4715db1813dd094829c22543d391ceadab5351f97a38101cf73db1458b97daed2409c0e16d064d25bfda8c23893d75222793146d0a78c3d64f35549141486ec3691a7b4c1a2034f";16:"3":"605baf947c0de49e4f6a0dbf94a3ac318d5df8ed20b8a4ba5a7373bf009ce5e5e5c0e87b7a025b1c75b7580f3890fd7092485edfa020abb70d33432edf02f70a7eafebdec54862ca0e0396a5a7d09991b9753eb1f6b6091971bb5789ec6b121abbdcc0a3cbaa39969fa7c28146f6ce96c60d3272e3793e5be85f5a9f5afabf9e2bb988d7b3050604a2af4da3a40af6003781a539af0259d1e84f13322da9e53a849e369b83e7286fb7f30b64bb773506705da5d5548a3563afacc902fbf7579a1b83c7a6dbd4074056883f48b5aa5446b43b1d180ea12ba11aa689d3b32aa30156b60b487f7fb142998a2a0d28014b84098ee7d9d5e455cc342ca26f5a1676a79268e8:POLARSSL_ERR_RSA_BAD_INPUT_DATA

RSA Generate Key
depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C
rsa_gen_key:128:3:0

RSA Generate Key (Number of bits too small)
depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C
rsa_gen_key:127:3:POLARSSL_ERR_RSA_BAD_INPUT_DATA

RSA Generate Key (Exponent too small)
depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C
rsa_gen_key:1024:3:0

RSA PKCS1 Encrypt Bad RNG
depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C
rsa_gen_key:128:3:POLARSSL_ERR_RSA_BAD_INPUT_DATA
RSA Selftest
depends_on: POLARSSL_SELF_TEST
rsa_selftest:
  set(libs
    polarssl
  )

  if(USE_PKCS11_HELPER_LIBRARY)
    set(libs $[libs] pkcs11-helper)
  endif(USE_PKCS11_HELPER_LIBRARY)

  if(ENABLE_ZLIB_SUPPORT)
    set(libs $[libs] ${ZLIB_LIBRARIES})
  endif(ENABLE_ZLIB_SUPPORT)

  add_executable(cert_app cert_app.c)
  target_link_libraries(cert_app $[libs])

  add_executable(crl_app crl_app.c)
  target_link_libraries(crl_app $[libs])

  install(TARGETS cert_app crl_app
    DESTINATION "bin"
    PERMISSIONS OWNER_READ OWNER_WRITE OWNER_EXECUTE GROUP_READ
    GROUP_EXECUTE WORLD_READ WORLD_EXECUTE)

Certificate:
  Data:
    Version: 3 (0x2)
    Serial Number: 12 (0xc)
    Signature Algorithm: sha1WithRSAEncryption
    Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
    Validity
      Not Before: Feb 7 16:06:36 2012 GMT
      Not After : Feb 7 16:06:36 2022 GMT
    Subject: C=NL, O=PolarSSL, CN=*.example.com
    Subject Public Key Info:
      Public Key Algorithm: rsaEncryption
      Public-Key: (2048 bit)
        Modulus:
17:f7
Exponent: 65537 (0x10001)
X509v3 extensions:
X509v3 Basic Constraints:
CA: FALSE
X509v3 Subject Key Identifier:
X509v3 Authority Key Identifier:
Signature Algorithm: sha1WithRSAEncryption
da:6:e:
ee:
ce:bb:0:fi:36
-----BEGIN CERTIFICATE-----
MIID0zCCAiogAwIBAgIBDBDANBgkqhkiG9w0BAQUFADA7MQswCQYDVQQGEwJOTDERMA8GA1UEChMIUG9sYXJTU0wxGTAXBgNVBAMTENN3aWMxMDMwNTEFMBaGPNiMIFRc3QgQ0EwHhcNMTIwMjA3MTYwNjM2WjA2MDQwZjEwMjUwMDQ2YawiA4MQswCQYDVQQGEwJOTDERMA8GA1UEChMIUG9sYXJTU0wxFjAUBgNVBAMUDSouZXhhbXBsZS5jb20wggEiMA0GCSqGSIb3DQEBAUA4IBDwAggEKAoIBAQC5PErFyKOOkBeknlKqcXUnYDYnXvTjRc+q
tkE7m74rVxZGxkUEU9/9bhoOwXibuzi/eNvHBTda1c5sD1xy+jJ20BrYGC2AG1T2
5USa8ucY8TSQZ2Qbftfs08/0zf7m9dm3zvku+celtePikuW+joglU7mW6lZfdn
e/CmvognI5DPC8Q2q7exgjaiwe3C9p399K3RU9+V4cWBGPrWzPS+mb3kcvkJKu698n
awZ9wzs0VVPW7sdSIXt3vqf9I6WPwGpYvZpXCxMkp2tik8FHPMps6+EEO1eHfuaB2/
eweGIaLgHj3pl3mzMMFz4w/N8Ri3coB4V+i+d1Psmsm3oArF3AgMBAAJtTTL
MAkGA1UdEwQCMAAwHqYDVROBBBYEFH3knGvm+XF9TISPa1H3CqnhMM8GA1Ud
IwQYMBaAFRLa5KWZ3dJSN9rVpUP6z68x/3/MA0GCSqGSIb3DQEBBQUAA4BAQCR
s4ReXDypQP3NbGdodo4JnsDmp7w5V80u/0EDnkSyAlI892wrssvWdpE6EZY3
Open Source Used In HyperFlex HX Data Platform 5.0(1a) 17014
add_executable(hello hello.c)
target_link_libraries(hello polarssl)

add_executable(generic_sum generic_sum.c)
target_link_libraries(generic_sum polarssl)

add_executable(md5sum md5sum.c)
target_link_libraries(md5sum polarssl)

add_executable(sha1sum sha1sum.c)
target_link_libraries(sha1sum polarssl)

add_executable(sha2sum sha2sum.c)
target_link_libraries(sha2sum polarssl)

install(TARGETS hello md5sum sha1sum sha2sum generic_sum
       DESTINATION "bin"
       PERMISSIONS OWNER_READ OWNER_WRITE OWNER_EXECUTE GROUP_READ
       GROUP_EXECUTE WORLD_READ WORLD_EXECUTE)

---BEGIN CERTIFICATE REQUEST-----

MIICgTCCAwkCAQAwPDELMAkGA1UEBhMCTkwxETAPBgNVBAoTCFBvbGFyU1NMMRow
   GAYDVQDExFQb2XhcINNTCTBZXJ2X1gMTCCASiwDQYJKoZIhvcNAQEBBQADggEP
   ADCCAQoCggEBAEKAhAhCHz1AatVVU4v9Nu6CZ5S4YYV6Jv7joRZDb7ogWUtPxnQ1BHlhJZ
   Zldr/Sv9RvLtztFpkGRW+1moG+JKXiFgNCDaVBq3dfOxwJBEeCsFc5cO2j7BUZ
   Hqgz/CEBBKupUzDNTn/db9NFFE3A3MTD0D4bYE1xwxqU8Y8bUbU5tPb7aSnqYF
   W+ctl4W115LZ1CQG1QkkiUXH3aYajz8JGb6ZSxk65Wb3P5Xhem2mxbacwCuhQ8s
   FiScStzN0pdSZ3PxLaAj/X70MccotMqJcWbLqzPcG6ezr1YieJTWZ5uWpJ4og/
   DfJQzo93lf2VE+o26twEtzaysxmXq1KCVLECAwEAAaAMA0GCSqGSIb3DQEBDQAU
   A4IBAQBBH78rloWUI0iUzEwx6yYkaBR22DfdSHINVjnenTsSsDfenfrubs42
   NfzhItLBNdM9s0isiPNKNzR0Mj4/DA55cVBfida70sNlwdsalOkrzJy8JISoy7
   ypqNeJQDgILO0Hkayqy6WY68a4s4K6Y8aK4w0pkGmtDZyg0fnBiiN1V72pc3PR
   Fu2h2wXkkvYJ+BeHVAY/GWMSTMHw1mkmsQna7asZ1MFIF3yeIW5F0md0fWPb6EcJm3
   vNTBc7ZI1BIQb9lyU96acexsJURJn5xY990SsTbd7Xm6xK6DpQWxFFEdvitur
   hSASqt5nVnLe4QhvnVAM1M8zt2ON

---END CERTIFICATE REQUEST-----

509 Certificate information #1

x509_cert_info:"data_files/server1.crt":"cert. version \ 3nserial number \ 0\tissuer name \ C=NL, O=PolarSSL, CN=PolarSSL Test CA\subject name \ C=NL, O=PolarSSL, CN=PolarSSL Server 1\issued on \ 2011-02-12
14:44:06
expires on  
\  2021-02-12 14:44:06
unsigned using \ \ RSA+SHA1\nRSA key size  \  2048 bits
"

X509 Certificate information #2
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_cert_info:"data_files/server2.crt":"cert. version \ 3
serial number \ 02
issuer name \ C=NL, O=PolarSSL, CN=PolarSSL Test CA
subject name \ C=NL, O=PolarSSL, CN=localhost
issued on \ 2011-02-12
14:44:06
expires on  
\  2021-02-12 14:44:06
unsigned using \ \ RSA+SHA1\nRSA key size  \  2048 bits
"

X509 Certificate information #3
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_cert_info:"data_files/test-ca.crt":"cert. version \ 3
serial number \ 00
issuer name \ C=NL, O=PolarSSL, CN=PolarSSL Test CA
subject name  \ C=NL, O=PolarSSL, CN=PolarSSL Test CA
issued on \ 2011-02-12
14:44:00
expires on  
\  2021-02-12 14:44:00
unsigned using \ \ RSA+SHA1\nRSA key size  \  2048 bits
"

X509 Certificate information MD2 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_cert_info:"data_files/cert_md2.crt":"cert. version \ 3
serial number \ 09
issuer name   \ C=NL, O=PolarSSL, CN=PolarSSL Test CA
subject name  \ C=NL, O=PolarSSL, CN=PolarSSL Cert MD2
issued on \ 2009-07-12 10:56:59
expires on  
\  2011-07-12 10:56:59
unsigned using \ \ RSA+MD2\nRSA key size  \  2048 bits
"

X509 Certificate information MD4 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_cert_info:"data_files/cert_md4.crt":"cert. version \ 3
serial number \ 05
issuer name   \ C=NL, O=PolarSSL, CN=PolarSSL Test CA
subject name  \ C=NL, O=PolarSSL, CN=PolarSSL Cert MD4
issued on \ 2011-02-12 14:44:07
expires on  
\  2021-02-12 14:44:07
unsigned using \ \ RSA+MD4\nRSA key size  \  2048 bits
"

X509 Certificate information MD5 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_cert_info:"data_files/cert_md5.crt":"cert. version \ 3
serial number \ 06
issuer name   \ C=NL, O=PolarSSL, CN=PolarSSL Test CA
subject name  \ C=NL, O=PolarSSL, CN=PolarSSL Cert MD5
issued on \ 2011-02-12 14:44:07
expires on  
\  2021-02-12 14:44:07
unsigned using \ \ RSA+MD5\nRSA key size  \  2048 bits
"

X509 Certificate information SHA1 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_cert_info:"data_files/cert_sha1.crt":"cert. version \ 3
serial number \ 07
issuer name   \ C=NL, O=PolarSSL, CN=PolarSSL Test CA
subject name  \ C=NL, O=PolarSSL, CN=PolarSSL Cert SHA1
issued on \ 2011-02-12 14:44:07
expires on  
\  2021-02-12 14:44:07
unsigned using \ \ RSA+SHA1\nRSA key size  \  2048 bits
"

X509 Certificate information SHA224 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_cert_info:"data_files/cert_sha224.crt":"cert. version \ 3
serial number \ 08
issuer name   \ C=NL, O=PolarSSL, CN=PolarSSL Test CA
subject name  \ C=NL, O=PolarSSL, CN=PolarSSL Cert SHA224
issued on \ 2011-02-12 14:44:07
expires on  
\  2021-02-12 14:44:07
unsigned using \ \ RSA+SHA224\nRSA key size  \  2048 bits
"
X509 Certificate information SHA256 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_cert_info:"data_files/cert_sha256.crt":"cert. version \: 3\nserial number \: 09\niissuer name \: C=NL, O=PolarSSL, CN=PolarSSL Test CA\nsubject name \: C=NL, O=PolarSSL, CN=PolarSSL Cert SHA256\nissued on \: 2011-02-12 14:44:07\nexpires on \: 2021-02-12 14:44:07\nsigned using \: RSA+SHA256\nRSA key size \: 2048 bits"

X509 Certificate information SHA384 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_cert_info:"data_files/cert_sha384.crt":"cert. version \: 3\nserial number \: 0A\niissuer name \: C=NL, O=PolarSSL, CN=PolarSSL Test CA\nsubject name \: C=NL, O=PolarSSL, CN=PolarSSL Cert SHA384\nissued on \: 2011-02-12 14:44:07\nexpires on \: 2021-02-12 14:44:07\nsigned using \: RSA+SHA384\nRSA key size \: 2048 bits"

X509 Certificate information SHA512 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_cert_info:"data_files/cert_sha512.crt":"cert. version \: 3\nserial number \: 0B\niissuer name \: C=NL, O=PolarSSL, CN=PolarSSL Test CA\nsubject name \: C=NL, O=PolarSSL, CN=PolarSSL Cert SHA512\nissued on \: 2011-02-12 14:44:07\nexpires on \: 2021-02-12 14:44:07\nsigned using \: RSA+SHA512\nRSA key size \: 2048 bits"

X509 CRL information #1
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_expired.pem":"CRL version \: 1\niissuer name \: C=NL, O=PolarSSL, CN=PolarSSL Test CA\nthis update \: 2011-02-20 10:24:19\nnext update \: 2011-02-20 11:24:19\nRevoked certificates:\nserial number: 01 revocation date: 2011-02-12 14:44:07\nserial number: 03 revocation date: 2011-02-12 14:44:07\nsigned using \: RSA+SHA1"

X509 CRL Information MD2 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_md2.pem":"CRL version \: 1\niissuer name \: C=NL, O=PolarSSL, CN=PolarSSL Test CA\nthis update \: 2009-07-19 19:56:37\nnext update \: 2009-09-17 19:56:37\nRevoked certificates:\nserial number: 01 revocation date: 2009-02-09 21:12:36\nserial number: 03 revocation date: 2009-02-09 21:12:36\nsigned using \: RSA+MD2"

X509 CRL Information MD4 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_md4.pem":"CRL version \: 1\niissuer name \: C=NL, O=PolarSSL, CN=PolarSSL Test CA\nthis update \: 2011-02-12 14:44:07\nnext update \: 2011-04-13 14:44:07\nRevoked certificates:\nserial number: 01 revocation date: 2011-02-12 14:44:07\nserial number: 03 revocation date: 2011-02-12 14:44:07\nsigned using \: RSA+MD4"

X509 CRL Information MD5 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_md5.pem":"CRL version \: 1\niissuer name \: C=NL, O=PolarSSL, CN=PolarSSL Test CA\nthis update \: 2011-02-12 14:44:07\nnext update \: 2011-04-13 14:44:07\nRevoked certificates:\nserial number: 01 revocation date: 2011-02-12 14:44:07\nserial number: 03 revocation date: 2011-02-12 14:44:07\n
02-12 14:44:07 unsigned

X509 CRL Information SHA1 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_sha1.pem":"CRL version \ :1
issuer name \ : C=NL, O=PolarSSL, CN=PolarSSL
Test CA\nthis update \ : 2011-02-12 14:44:07\next update \ : 2011-04-13 14:44:07
Revoked
serial number\: 01 revocation date\: 2011-02-12 14:44:07
signed using \ : RSA+SHA1

X509 CRL Information SHA224 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_sha224.pem":"CRL version \ :1
issuer name \ : C=NL, O=PolarSSL, CN=PolarSSL
Test CA\nthis update \ : 2011-02-12 14:44:07\next update \ : 2011-04-13 14:44:07
Revoked
serial number\: 01 revocation date\: 2011-02-12 14:44:07
signed using \ : RSA+SHA224

X509 CRL Information SHA256 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_sha256.pem":"CRL version \ :1
issuer name \ : C=NL, O=PolarSSL, CN=PolarSSL
Test CA\nthis update \ : 2011-02-12 14:44:07\next update \ : 2011-04-13 14:44:07
Revoked
serial number\: 01 revocation date\: 2011-02-12 14:44:07
signed using \ : RSA+SHA256

X509 CRL Information SHA384 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_sha384.pem":"CRL version \ :1
issuer name \ : C=NL, O=PolarSSL, CN=PolarSSL
Test CA\nthis update \ : 2011-02-12 14:44:07\next update \ : 2011-04-13 14:44:07
Revoked
serial number\: 01 revocation date\: 2011-02-12 14:44:07
signed using \ : RSA+SHA384

X509 CRL Information SHA512 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_sha512.pem":"CRL version \ :1
issuer name \ : C=NL, O=PolarSSL, CN=PolarSSL
Test CA\nthis update \ : 2011-02-12 14:44:07\next update \ : 2011-04-13 14:44:07
Revoked
serial number\: 01 revocation date\: 2011-02-12 14:44:07
signed using \ : RSA+SHA512

X509 Parse Key #1 (No password when required)
depends_on:POLARSSL_MD5_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509parse_keyfile:"data_files/test-ca.key":NULL:POLARSSL_ERR_X509_PASSWORD_REQUIRED

X509 Parse Key #2 (Correct password)
depends_on:POLARSSL_MD5_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509parse_keyfile:"data_files/test-ca.key":"PolarSSLTest":0

X509 Parse Key #3 (Wrong password)
depends_on:POLARSSL_MD5_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509parse_keyfile:"data_files/test-
X509 Parse Key #4 (DES Encrypted)
depends_on:POLARSSL_MD5_C:POLARSSL_DES_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509parse_keyfile:"data_files/keyfile.des":"testkey":0

X509 Parse Key #5 (3DES Encrypted)
depends_on:POLARSSL_MD5_C:POLARSSL_DES_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509parse_keyfile:"data_files/keyfile.3des":"testkey":0

X509 Parse Key #6 (AES-128 Encrypted)
depends_on:POLARSSL_MD5_C:POLARSSL_AES_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509parse_keyfile:"data_files/keyfile.aes128":"testkey":0

X509 Parse Key #7 (AES-192 Encrypted)
depends_on:POLARSSL_MD5_C:POLARSSL_AES_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509parse_keyfile:"data_files/keyfile.aes192":"testkey":0

X509 Parse Key #8 (AES-256 Encrypted)
depends_on:POLARSSL_MD5_C:POLARSSL_AES_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509parse_keyfile:"data_files/keyfile.aes256":"testkey":0

X509 Parse Key #9 (PKCS#8 wrapped)
depends_on:POLARSSL_MD5_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509parse_keyfile:"data_files/format_gen.key":"":0

X509 Parse Key #10 (PKCS#8 encrypted SHA1-3DES)
depends_on:POLARSSL_MD5_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS12_C
x509parse_keyfile:"data_files/pkcs8_pbe_sha1_3des.key":"PolarSSLTest":0

X509 Parse Key #10.1 (PKCS#8 encrypted SHA1-3DES, wrong PW)
depends_on:POLARSSL_MD5_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS12_C
x509parse_keyfile:"data_files/pkcs8_pbe_sha1_3des.key":"PolarSSLTest":POLARSSL_ERR_X509_PASSWORD_MISMATCH

X509 Parse Key #10.2 (PKCS#8 encrypted SHA1-3DES, no PW)
depends_on:POLARSSL_MD5_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS12_C
x509parse_keyfile:"data_files/pkcs8_pbe_sha1_3des.key":":POLARSSL_ERR_X509_PASSWORD_REQUIRED

X509 Parse Key #11 (PKCS#8 encrypted SHA1-3DES DER)
depends_on:POLARSSL_MD5_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS12_C
x509parse_keyfile:"data_files/pkcs8_pbe_sha1_3des.der":"PolarSSLTest":0

X509 Parse Key #12 (PKCS#8 encrypted SHA1-2DES)
depends_on:POLARSSL_MD5_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS12_C
x509parse_keyfile:"data_files/pkcs8_pbe_sha1_2des.der":"PolarSSLTest":0
PKCS12_C
x509_parse_keyfile:"data_files/pkcs8_pbe_sha1_2des.key":"PolarSSLTest":0

X509 Parse Key #12.1 (PKCS#8 encrypted SHA1-2DES, wrong PW)
depends_on:POLARSSL_DES_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS12_C
x509_parse_keyfile:"data_files/pkcs8_pbe_sha1_2des.key":"PolarSSLTest":POLARSSL_ERR_X509_PASSWORD_MISMATCH

X509 Parse Key #12.2 (PKCS#8 encrypted SHA1-2DES, no PW)
depends_on:POLARSSL_DES_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS12_C
x509_parse_keyfile:"data_files/pkcs8_pbe_sha1_2des.key":":POLARSSL_ERR_X509_PASSWORD_REQUIRED

X509 Parse Key #13 (PKCS#8 encrypted SHA1-RC4-128)
depends_on:POLARSSL_ARC4_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS12_C
x509_parse_keyfile:"data_files/pkcs8_pbe_sha1_rc4_128.key":"PolarSSLTest":0

X509 Parse Key #13.1 (PKCS#8 encrypted SHA1-RC4-128, wrong PW)
depends_on:POLARSSL_ARC4_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS12_C
x509_parse_keyfile:"data_files/pkcs8_pbe_sha1_rc4_128.key":"PolarSSLTest":POLARSSL_ERR_X509_PASSWORD_MISMATCH

X509 Parse Key #13.2 (PKCS#8 encrypted SHA1-RC4-128, no PW)
depends_on:POLARSSL_ARC4_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS12_C
x509_parse_keyfile:"data_files/pkcs8_pbe_sha1_rc4_128.key":":POLARSSL_ERR_X509_PASSWORD_REQUIRED

X509 Parse Key #14 (PKCS#8 encrypted v2 PBDFK2 3DES)
depends_on:POLARSSL_DES_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS5_C
x509_parse_keyfile:"data_files/pkcs8_pbes2_pbkdf2_3des.key":"PolarSSLTest":0

X509 Parse Key #15 (PKCS#8 encrypted v2 PBDFK2 3DES, wrong PW)
depends_on:POLARSSL_DES_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS5_C
x509_parse_keyfile:"data_files/pkcs8_pbes2_pbkdf2_3des.key":"PolarSSLTest":POLARSSL_ERR_X509_PASSWORD_MISMATCH

X509 Parse Key #16 (PKCS#8 encrypted v2 PBDFK2 3DES, no PW)
depends_on:POLARSSL_DES_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS5_C
x509_parse_keyfile:"data_files/pkcs8_pbes2_pbkdf2_3des.key":":POLARSSL_ERR_X509_PASSWORD_REQUIRED
X509 Parse Key #17 (PKCS#8 encrypted v2 PBDFK2 3DES DER)
depends_on:POLARSSL_DES_C:POLARSSL_SHA1_C:POLARSSL_FS_IO:POLARSSL_PKCS5_C
x509parse_keyfile:"data_files/pkcs8_pbes2_pbkdf2_3des.der":"PolarSSLTest":0

X509 Parse Key #18 (PKCS#8 encrypted v2 PBDFK2 3DES DER, wrong PW)
depends_on:POLARSSL_DES_C:POLARSSL_SHA1_C:POLARSSL_FS_IO:POLARSSL_PKCS5_C
x509parse_keyfile:"data_files/pkcs8_pbes2_pbkdf2_3des.der":"PolarSSLTest":POLARSSL_ERR_X509_PASSWORD_MISMATCH

X509 Parse Key #19 (PKCS#8 encrypted v2 PBDFK2 3DES DER, no PW)
depends_on:POLARSSL_DES_C:POLARSSL_SHA1_C:POLARSSL_FS_IO:POLARSSL_PKCS5_C
x509parse_keyfile:"data_files/pkcs8_pbes2_pbkdf2_3des.der":":":POLARSSL_ERR_X509_KEY_INVALID_FORMAT

X509 Parse Key #20 (PKCS#8 encrypted v2 PBDFK2 DES)
depends_on:POLARSSL_DES_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS5_C
x509parse_keyfile:"data_files/pkcs8_pbes2_pbkdf2_des.key":"PolarSSLTest":0

X509 Parse Public Key #1 (PKCS#8 wrapped)
depends_on:POLARSSL_MD5_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509parse_public_keyfile:"data_files/format_gen.pub":0

X509 Get Distinguished Name #1
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_dn_gets:"data_files/server1.crt":subject:"C=NL, O=PolarSSL, CN=PolarSSL Server 1"

X509 Get Distinguished Name #2
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_dn_gets:"data_files/server1.crt":issuer:"C=NL, O=PolarSSL, CN=PolarSSL Test CA"

X509 Get Distinguished Name #3
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_dn_gets:"data_files/server2.crt":subject:"C=NL, O=PolarSSL, CN=localhost"

X509 Get Distinguished Name #4
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_dn_gets:"data_files/server2.crt":issuer:"C=NL, O=PolarSSL, CN=PolarSSL Test CA"

X509 Time Expired #1
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_time_expired:"data_files/server1.crt":valid_from:1

X509 Time Expired #2
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_time_expired:"data_files/server1.crt":valid_to:0

X509 Time Expired #3
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_time_expired:"data_files/server2.crt":valid_from:1

X509 Time Expired #4
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_time_expired:"data_files/server2.crt":valid_to:0

X509 Time Expired #5
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_time_expired:"data_files/test-ca.crt":valid_from:1

X509 Time Expired #6:POLARSSL_FS_IO
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_time_expired:"data_files/test-ca.crt":valid_to:0

X509 Certificate verification #1 (Revoked Cert, Expired CRL)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/server1.crt":"data_files/test-ca.crt":"data_files/crl_expired.pem":NULL:POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_REVOKED | BADCRL_EXPIRED:NUL

X509 Certificate verification #2 (Revoked Cert, Expired CRL)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/server1.crt":"data_files/test-ca.crt":"data_files/crl_expired.pem":"PolarSSL Server 1":POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_REVOKED | BADCRL_EXPIRED:NUL

X509 Certificate verification #3 (Revoked Cert, Expired CRL, CN Mismatch)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/server1.crt":"data_files/test-ca.crt":"data_files/crl_expired.pem":"PolarSSL Wrong CN":POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_REVOKED | BADCRL_EXPIRED | BADCERT_CN_MISMATCH:NUL

X509 Certificate verification #4 (Valid Cert, Expired CRL)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/server2.crt":"data_files/test-ca.crt":"data_files/crl_expired.pem":NULL:POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCRL_EXPIRED:NUL

X509 Certificate verification #5 (Revoked Cert)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/server1.crt":"data_files/test-ca.crt":"data_files/crl.pem":NULL:POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_REVOKED:NUL

X509 Certificate verification #6 (Revoked Cert)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/server1.crt":"data_files/test-ca.crt":"data_files/crl.pem":"PolarSSL Server 1":POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_REVOKED:NUL
X509 Certificate verification #7 (Revoked Cert, CN Mismatch)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/server1.crt":"data_files/test-ca.crt":"data_files/crl.pem":"PolarSSL Wrong CN":POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_REVOKED | BADCERT_CN_MISMATCH:NULL

X509 Certificate verification #8 (Valid Cert)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/server2.crt":"data_files/test-ca.crt":"data_files/crl.pem":NULL:0:0:NULL

X509 Certificate verification #9 (Not trusted Cert)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/server2.crt":"data_files/server1.crt":"data_files/crl.pem":NULL:POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_NOT_TRUSTED:NULL

X509 Certificate verification #10 (Not trusted Cert, Expired CRL)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/server2.crt":"data_files/server1.crt":"data_files/crl_expired.pem":NULL:POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_NOT_TRUSTED:NULL

X509 Certificate verification #12 (Valid Cert MD4 Digest)
depends_on:POLARSSL_MD4_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_md4.crt":"data_files/test-ca.crt":"data_files/crl.pem":NULL:0:0:NULL

X509 Certificate verification #13 (Valid Cert MD5 Digest)
depends_on:POLARSSL_MD5_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_md5.crt":"data_files/test-ca.crt":"data_files/crl.pem":NULL:0:0:NULL

X509 Certificate verification #14 (Valid Cert SHA1 Digest)
depends_on:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_sha1.crt":"data_files/test-ca.crt":"data_files/crl.pem":NULL:0:0:NULL

X509 Certificate verification #15 (Valid Cert SHA224 Digest)
depends_on:POLARSSL_SHA2_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_sha224.crt":"data_files/test-ca.crt":"data_files/crl.pem":NULL:0:0:NULL

X509 Certificate verification #16 (Valid Cert SHA256 Digest)
depends_on:POLARSSL_SHA2_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_sha256.crt":"data_files/test-ca.crt":"data_files/crl.pem":NULL:0:0:NULL

X509 Certificate verification #17 (Valid Cert SHA384 Digest)
depends_on:POLARSSL_SHA4_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_sha384.crt":"data_files/test-ca.crt":"data_files/crl.pem":NULL:0:0:NULL

X509 Certificate verification #18 (Valid Cert SHA512 Digest)
depends_on:POLARSSL_SHA4_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_sha512.crt":"data_files/test-ca.crt":"data_files/crl.pem":NULL:0:0:NULL
X509 Certificate verification #19 (Valid Cert, denying callback)
depends_on:POLARSSL_SHA4_C:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_sha512.crt":"data_files/test-ca.crt":"data_files/crl.pem":NULL:POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_OTHER:verify_none

X509 Certificate verification #20 (Not trusted Cert, allowing callback)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/server2.crt":"data_files/server1.crt":"data_files/crl_expired.pem":NULL:0:0:verify_all

X509 Certificate verification #21 (domain matching wildcard certificate)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_example_wildcard.crt":"data_files/test-ca.crt":"data_files/crl.pem":"mail.example.com":0:0:NULL

X509 Certificate verification #22 (domain not matching wildcard certificate)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_example_wildcard.crt":"data_files/test-ca.crt":"data_files/crl.pem":"mail.example.net":POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_CN_MISMATCH:NULL

X509 Certificate verification #23 (domain not matching multi certificate)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_example_multi.crt":"data_files/test-ca.crt":"data_files/crl.pem":"mail.example.net":POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_CN_MISMATCH:NULL

X509 Certificate verification #24 (domain matching CN of multi certificate)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_example_multi.crt":"data_files/test-ca.crt":"data_files/crl.pem":"example.com":POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_CN_MISMATCH:NULL

X509 Certificate verification #25 (domain matching multi certificate)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_example_multi.crt":"data_files/test-ca.crt":"data_files/crl.pem":"example.net":0:0:NULL

X509 Certificate verification #26 (domain not matching multi certificate)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_example_multi.crt":"data_files/test-ca.crt":"data_files/crl.pem":"www.example.net":POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_CN_MISMATCH:NULL

X509 Certificate verification #27 (domain not matching multi certificate)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_example_multi.crt":"data_files/test-
X509 Certificate verification #27 (domain not matching multi certificate)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_example_multi.crt":"data_files/test-ca.crt":"data_files/crl.pem":"xample.net":POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_CN_MISMATCH:NULL

X509 Certificate verification #28 (domain not matching wildcard in multi certificate)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_example_multi.crt":"data_files/test-ca.crt":"data_files/crl.pem":"bexample.net":POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_CN_MISMATCH:NULL

X509 Certificate verification #29 (domain matching wildcard in multi certificate)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_example_multi.crt":"data_files/test-ca.crt":"data_files/crl.pem":"example.org":POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_CN_MISMATCH:NULL

X509 Certificate verification #30 (domain matching multi certificate without CN)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_example_multi_nocn.crt":"data_files/test-ca.crt":"data_files/crl.pem":"www.shotokan-braunschweig.de":POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_NOT_TRUSTED:NULL

X509 Certificate verification #31 (domain not matching multi certificate without CN)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:"data_files/cert_example_multi_nocn.crt":"data_files/test-ca.crt":"data_files/crl.pem":"www.example.net":POLARSSL_ERR_X509_CERT_VERIFY_FAILED:BADCERT_CN_MISMATCH + BADCERT_NOT_TRUSTED:NULL

X509 Parse Selftest
depends_on:POLARSSL_MD5_C:POLARSSL_PEM_C:POLARSSL_SELF_TEST
x509_selftest:

X509 Certificate ASN1 (Incorrect first tag)
x509parse_crt:"":":":POLARSSL_ERR_X509_CERT_INVALID_FORMAT

X509 Certificate ASN1 (Correct first tag, data length does not match)
x509parse_crt:"300000"":":":POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (Correct first tag, no more data)
x509parse_crt:"3000":":":POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (Correct first tag, length data incorrect)
x509parse_crt:"30023085"":":":POLARSSL_ERR_X509_CERT_INVALID_FORMAT +
POLARSSL_ERR_ASN1_INVALID_LENGTH

X509 Certificate ASN1 (Correct first tag, length data incomplete)
x509parse_crt:"30023083":"":POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (Correct first tag, length data incomplete)
x509parse_crt:"30023081":"":POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (Correct first tag, length data incomplete)
x509parse_crt:"3003308200"":":POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (Correct first tag, second tag no TBSCertificate)
x509parse_crt:"300100"":":POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, no version tag, serial missing)
x509parse_crt:"3003300100"":":POLARSSL_ERR_X509_CERT_INVALID_SERIAL + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, invalid version tag)
x509parse_crt:"30053003a00101"":":POLARSSL_ERR_X509_CERT_INVALID_VERSION + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, valid version tag, no length)
x509parse_crt:"30053003a00102"":":POLARSSL_ERR_X509_CERT_INVALID_VERSION + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, valid version tag, invalid length)
x509parse_crt:"30163014a012010000000000000000000000000000000000000000000"":":POLARSSL_ERR_X509_CERT_I NVALID_VERSION + POLARSSL_ERR_ASN1_INVALID_LENGTH

X509 Certificate ASN1 (TBSCertificate, valid version tag, no serial)
x509parse_crt:"30073005a003020104"":":POLARSSL_ERR_X509_CERT_INVALID_SERIAL + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, invalid length version tag)
x509parse_crt:"30083006a00402010400"":":POLARSSL_ERR_X509_CERT_INVALID_VERSION + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, incorrect serial tag)
x509parse_crt:"30083006a00302010400"":":POLARSSL_ERR_X509_CERT_INVALID_SERIAL + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, incorrect serial length)
x509parse_crt:"30083006a00302010482"":":POLARSSL_ERR_X509_CERT_INVALID_SERIAL +
POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, correct serial, no alg)
x509parse_crt:"300d300ba003030201048204deadbeef";"":POLARSSL_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, correct serial, no alg oid)
x509parse_crt:"300e300da003030201048204deadbeef00";"":POLARSSL_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, alg oid no data in sequence)
x509parse_crt:"30163014a0030201048204deadbeef3000";"":POLARSSL_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, alg with params)
x509parse_crt:"30173015a0030201048204deadbeef30070604cafed00d0500";"":POLARSSL_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, correct alg data, no params unknown version)
x509parse_crt:"30183016a0030201048204deadbeef30090604cafed00d050000";"":POLARSSL_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, correct alg, unknown alg_id)
x509parse_crt:"30193017a0030201048204deadbeef30080604cafed00d0500";"":POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, correct alg, specific alg_id)
x509parse_crt:"301a3018a0030201048204deadbeef300d06092a864886f70d0101020500";"":POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, correct alg, unknown specific alg_id)
x509parse_crt:"301b3019a0030201048204deadbeef300d06092a864886f70d010102050000";"":POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer no set data)
x509parse_crt:"301c301aa0030201048204deadbeef300d06092a864886f70d010102050000";"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer no inner seq data)
x509parse_crt:"301d301ba0030201048204deadbeef300d06092a864886f70d010102050000";"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

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X509 Certificate ASN1 (TBSCertificate, issuer no inner set data)
x509parse_crt:"30223020a0030201028204deadbeef300d0692a864886f70d0101020500300431023000":"";POLAR
SSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer two inner set datas)
x509parse_crt:"30243022a0030201028204deadbeef300d0692a864886f70d01010205003006310430003000":"";PO
LARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, issuer no oid data)
x509parse_crt:"30243022a0030201028204deadbeef300d0692a864886f70d01010205003006310430006000":"";PO
LARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer invalid tag)
x509parse_crt:"302a3028a0030201028204deadbeef300d0692a864886f70d0101020500300030003000":"";POLAR
SSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, issuer, no string data)
x509parse_crt:"30253023a0030201028204deadbeef300d0692a864886f70d01010205003000300013":"";PO
LARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer, no full following string)
x509parse_crt:"302b3029a0030201028204deadbeef300d0692a864886f70d0101020500300030001300":"";POLAR
SSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, valid issuer, no validity)
x509parse_crt:"302a3028a0030201028204deadbeef300d0692a864886f70d01010205003000c310a30080600130454
657374":":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, too much date data)
x509parse_crt:"30493047a0030201028204deadbeef300d0692a864886f70d01010205003000c310a30080600130454
65737400":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, invalid from date)
x509parse_crt:"30483046a0030201028204deadbeef300d0692a864886f70d01010205003000c310a30080600130454
65737400":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, invalid to date)
x509parse_crt:"30483046a0030201028204deadbeef300d0692a864886f70d01010205003000c310a30080600130454
65737400":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, valid validity, no subject)
x509 parse crt: "30493047a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130303030303030303030170c303931233312333539359390c" : "POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_OUT_OF_DATA"

X509 Certificate ASN1 (TBSCertificate, valid subject, no pubkkeyinfo)
x509 parse crt: "30563054a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130303030303030303030170c303931233312333539359390c310a30080600130454657374 3000" : "POLARSSL_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_OUT_OF_DATA"

X509 Certificate ASN1 (TBSCertificate, valid subject, unknown pk alg)
x509 parse crt: "30673065a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130303030303030303030170c303931233312333539359390c310a30080600130454657374 3000f300d0609a864886f70d0101000500" : "POLARSSL_ERR_X509_UNKNOWN_PK_ALG"

X509 Certificate ASN1 (TBSCertificate, pubkey, no bitstring)
x509 parse crt: "30693067a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130303030303030303030170c303931233312333539359390c310a30080600130454657374 30003011300d0609a864886f70d0101010500300c310a30080600130454657374 300012300d0609a864886f70d010101050003000c310a30080600130454657374 3000f300d0609a864886f70d0101000500" : "POLARSSL_ERR_X509_CERT_INVALID_PUBKEY + POLARSSL_ERR_ASN1_OUT_OF_DATA"

X509 Certificate ASN1 (TBSCertificate, pubkey, invalid bitstring start)
x509 parse crt: "306a3068a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130303030303030303030170c303931233312333539359390c310a30080600130454657374 3000300d0609a864886f70d010101050003000c310a30080600130454657374 3011300d0609a864886f70d010101050003000c310a30080600130454657374 3000f300d0609a864886f70d0101000500" : "POLARSSL_ERR_X509_CERT_INVALID_PUBKEY + POLARSSL_ERR_ASN1_OUT_OF_DATA"

X509 Certificate ASN1 (TBSCertificate, pubkey, invalid bitstring length)
x509 parse crt: "306d306ba0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130303030303030303030170c303931233312333539359390c310a30080600130454657374 3000f300d0609a864886f70d010101050003000c310a30080600130454657374 3012300d0609a864886f70d010101050003000c310a30080600130454657374 3015300d0609a864886f70d010101050003000c310a30080600130454657374 3000f300d0609a864886f70d0101000500" : "POLARSSL_ERR_X509_CERT_INVALID_PUBKEY + POLARSSL_ERR_ASN1_LENGTH_MISMATCH"

X509 Certificate ASN1 (TBSCertificate, pubkey, invalid bitstring tag)
x509 parse crt: "306d306ba0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130303030303030303030170c303931233312333539359390c310a30080600130454657374 3000f300d0609a864886f70d010101050003000c310a30080600130454657374 3015300d0609a864886f70d010101050003000c310a30080600130454657374 3000f300d0609a864886f70d0101000500" : "POLARSSL_ERR_X509_CERT_INVALID_PUBKEY + POLARSSL_ERR_ASN1_UNEXPECTED_TAG"
X509 Certificate ASN1 (TBSCertificate, pubkey, invalid mpi)
x509parse_crt:"30743072a03030201028204deadbeef300d06092a864886f70d010102050030c310a30080600130454 657374301c170c30393013013030303030170c303931233312333353935930c310a30080600130454657374 301c300d06092a864886f70d010101050003003003080202fff0302fff":""\nPOLARSSL_ERR_X509_CERT_INVALID_PUBKEY + POLARSSL_ERR_ASN1:length mismatch\nX509 Certificate ASN1 (TBSCertificate, pubkey, total length mismatch)
x509parse_crt:"30753073a03030201028204deadbeef300d06092a864886f70d010102050030c310a30080600130454 657374301c170c30393013013030303030170c303931233312333353935930c310a30080600130454657374 301d300d06092a864886f70d010101050003003003080202fff0202fff0":""\nPOLARSSL_ERR_X509_CERT_INVALID_PUBKEY + POLARSSL_ERR_ASN1: unexpected tag\nX509 Certificate ASN1 (TBSCertificate, pubkey, check failed)
x509parse_crt:"30743072a03030201028204deadbeef300d06092a864886f70d010102050030c310a30080600130454 657374301c170c30393013013030303030170c303931233312333353935930c310a30080600130454657374 301c300d06092a864886f70d010101050003003003080202fff0202fff0":""\nPOLARSSL_ERR_RSA_KEY_CHECK_FAILED\nX509 Certificate ASN1 (TBSCertificate, pubkey, check failed, expanded length notation)
x509parse_crt:"3081833081a03030201028204deadbeef300d06092a864886f70d010102050030c310a30080600130454657374301c170c30393013013030303030170c303931233312333353935930c310a30080600130454 65737430a300d06092a864886f70d010101050003190030160210fffffffffffffffffffffffffe0202fff":""\nPOLARSSL_ERR_RSA_KEY_CHECK_FAILED\nX509 Certificate ASN1 (TBSCertificate, pubkey, check failed, issuerID wrong tag)
x509parse_crt:"3081833081a03030201028204deadbeef300d06092a864886f70d010102050030c310a30080600130454657374301c170c30393013013030303030170c303931233312333353935930c310a3008060013045465737430a300d06092a864886f70d010101050003190030160210fffffffffffffffffffffffffe0202fff":""\nPOLARSSL_ERR_RSA_KEY_CHECK_FAILED + POLARSSL_ERR_ASN1: invalid pattern\nX509 Certificate ASN1 (TBSCertificate v3, Optional UIDs, Extensions not present)
x509parse_crt:"3081833081a03030201028204deadbeef300d06092a864886f70d010102050030c310a30080600130454657374301c170c30393013013030303030170c303931233312333353935930c310a30080600130454 65737430a300d06092a864886f70d010101050003190030160210fffffffffffffffffffffffffe0202fff":""\nPOLARSSL_ERR_RSA_KEY_CHECK_FAILED + POLARSSL_ERR_ASN1: out of data\nX509 Certificate ASN1 (TBSCertificate v3, issuerID wrong tag)
x509parse_crt:"3081833081a03030201028204deadbeef300d06092a864886f70d010102050030c310a30080600130454657374301c170c30393013013030303030170c303931233312333353935930c310a3008060013045465737430a300d06092a864886f70d010101050003190030160210fffffffffffffffffffffffffe0202fff":""\nPOLARSSL_ERR_RSA_KEY_CHECK_FAILED + POLARSSL_ERR_ASN1: out of data\nX509 Certificate ASN1 (TBSCertificate v3, UIDs, no ext)
x509parse_crt:"3081838183a03030201028204deadbeef300d06092a864886f70d010102050030c310a30080600130454657374301c170c30393013013030303030170c303931233312333353935930c310a30080600130454 65737430a300d06092a864886f70d010101050003190030160210fffffffffffffffffffffffffe0202fff":""\nPOLARSSL_ERR_RSA_KEY_CHECK_FAILED + POLARSSL_ERR_ASN1: out of data\nX509 Certificate ASN1 (TBSCertificate v3, UIDs, invalid length)
x509parse_crt:"3081838183a03030201028204deadbeef300d06092a864886f70d010102050030c310a30080600130454657374301c170c30393013013030303030170c303931233312333353935930c310a3008060013045465737430a300d06092a864886f70d010101050003190030160210fffffffffffffffffffffffffe0202fff":""\nPOLARSSL_ERR_RSA_KEY_CHECK_FAILED + POLARSSL_ERR_ASN1: out of data
X509 Certificate ASN1 (TBSCertificate v3, ext empty)
x509parse_crt:"30818b308188a0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffffa101aaa201bba
300":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIONS +
POLARSSL_ERR_ASN1_OUT_OF_DATA
X509 Certificate ASN1 (TBSCertificate v3, ext length mismatch)
x509parse_crt:"30818e30818ba0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffffa101aaa201bba
303300000":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIONS +
POLARSSL_ERR_ASN1_LENGTH_MISMATCH
X509 Certificate ASN1 (TBSCertificate v3, first ext invalid)
x509parse_crt:"30818f30818ca0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffffa101aaa201bba
30330023000":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIONS +
POLARSSL_ERR_ASN1_OUT_OF_DATA
X509 Certificate ASN1 (TBSCertificate v3, first ext invalid tag)
x509parse_crt:"30819030818da0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffffa101aaa201bba
3043002310000":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIONS +
POLARSSL_ERR_ASN1_UNEXPECTED_TAG
X509 Certificate ASN1 (TBSCertificate v3, ext BasicContraint tag, bool len missing)
x509parse_crt:"308198308195a0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffffa101aaa201bba
30c300a30060603551d1301010100":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIONS +
POLARSSL_ERR_ASN1_OUT_OF_DATA
X509 Certificate ASN1 (TBSCertificate v3, ext BasicContraint tag, data missing)
x509parse_crt:"308198308195a0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffffa101aaa201bba
30c300a30080603551d1301010100":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIONS +
POLARSSL_ERR_ASN1_OUT_OF_DATA
X509 Certificate ASN1 (TBSCertificate v3, ext BasicContraint tag, no octet present)
x509parse_crt:"308198308195a0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffffa101aaa201bba
30d300b30090603551d1301010100":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIONS +
POLARSSL_ERR_ASN1_UNEXPECTED_TAG

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X509 Certificate ASN1 (TBSCertificate v3, ext BasicContraint tag, octet data missing)
x509parse_crt:"30819c308199a0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffffa101aaa201bba
311300f300d0603551d130101010403300100":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIONS +
POLARSSL_ERR_ASN1_UNEXPECTED_TAG
X509 Certificate ASN1 (TBSCertificate v3, ext BasicContraint tag, no pathlen)
x509parse_crt:"30819f30819ca0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffffa101aaa201bba
314301230100603551d130101010406300402010102":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIO
NS + POLARSSL_ERR_ASN1_OUT_OF_DATA
X509 Certificate ASN1 (TBSCertificate v3, ext BasicContraint tag, octet len mismatch)
x509parse_crt:"3081a230819fa0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffffa101aaa201bba
317301530130603551d130101010409300702010102010100":"":POLARSSL_ERR_X509_CERT_INVALID_EXT
ENSIONS + POLARSSL_ERR_ASN1_LENGTH_MISMATCH
X509 Certificate ASN1 (correct pubkey, no sig_alg)
x509parse_crt:"308183308180a0030201008204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffff":"":POLARSS
L_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_OUT_OF_DATA
X509 Certificate ASN1 (sig_alg mismatch)
x509parse_crt:"308192308180a0030201008204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffff300d06092a86
4886f70d0102020500":"":POLARSSL_ERR_X509_CERT_SIG_MISMATCH
X509 Certificate ASN1 (sig_alg, no sig)
x509parse_crt:"308192308180a0030201008204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffff300d06092a86
4886f70d0101020500":"":POLARSSL_ERR_X509_CERT_INVALID_SIGNATURE +
POLARSSL_ERR_ASN1_OUT_OF_DATA
X509 Certificate ASN1 (signature, invalid sig data)
x509parse_crt:"308195308180a0030201008204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffff300d06092a86
4886f70d0101020500030100":"":POLARSSL_ERR_X509_CERT_INVALID_SIGNATURE
X509 Certificate ASN1 (signature, data left)

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x509parse_crt:"308197308180a0030201008204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffff300d06092a86
4886f70d0101020500030200ff00":"":POLARSSL_ERR_X509_CERT_INVALID_FORMAT +
POLARSSL_ERR_ASN1_LENGTH_MISMATCH
X509 Certificate ASN1 (correct)
x509parse_crt:"308196308180a0030201008204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013045465
7374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffff300d06092a86
4886f70d0101020500030200ff":"cert. version \: 1\nserial number \: DE\:AD\:BE\:EF\nissuer name \:
?\?=Test\nsubject name \: ?\?=Test\nissued on \: 2009-01-01 00\:00\:00\nexpires on \: 2009-12-31
23\:59\:59\nsigned using \: RSA+MD2\nRSA key size \: 128 bits\n":0
X509 Certificate ASN1 (GeneralizedTime instead of UTCTime)
x509parse_crt:"308198308182a0030201008204deadbeef300d06092a864886f70d0101020500300c310a3008060013
0454657374301e180e3230313030313031303030303030170c303931323331323335393539300c310a300806001304
54657374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffff300d0609
2a864886f70d0101020500030200ff":"cert. version \: 1\nserial number \: DE\:AD\:BE\:EF\nissuer name \:
?\?=Test\nsubject name \: ?\?=Test\nissued on \: 2010-01-01 00\:00\:00\nexpires on \: 2009-12-31
23\:59\:59\nsigned using \: RSA+MD2\nRSA key size \: 128 bits\n":0
X509 Certificate ASN1 (Name with X520 CN)
x509parse_crt:"308199308183a0030201008204deadbeef300d06092a864886f70d0101020500300f310d300b060355
0403130454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013
0454657374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffff300d06
092a864886f70d0101020500030200ff":"cert. version \: 1\nserial number \: DE\:AD\:BE\:EF\nissuer name \:
CN=Test\nsubject name \: ?\?=Test\nissued on \: 2009-01-01 00\:00\:00\nexpires on \: 2009-12-31
23\:59\:59\nsigned using \: RSA+MD2\nRSA key size \: 128 bits\n":0
X509 Certificate ASN1 (Name with X520 C)
x509parse_crt:"308199308183a0030201008204deadbeef300d06092a864886f70d0101020500300f310d300b060355
0406130454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013
0454657374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffff300d06
092a864886f70d0101020500030200ff":"cert. version \: 1\nserial number \: DE\:AD\:BE\:EF\nissuer name \:
C=Test\nsubject name \: ?\?=Test\nissued on \: 2009-01-01 00\:00\:00\nexpires on \: 2009-12-31
23\:59\:59\nsigned using \: RSA+MD2\nRSA key size \: 128 bits\n":0
X509 Certificate ASN1 (Name with X520 L)
x509parse_crt:"308199308183a0030201008204deadbeef300d06092a864886f70d0101020500300f310d300b060355
0407130454657374301c170c303930313031303030303030170c303931323331323335393539300c310a3008060013
0454657374302a300d06092A864886F70D010101050003190030160210ffffffffffffffffffffffffffffffff0202ffff300d06
092a864886f70d0101020500030200ff":"cert. version \: 1\nserial number \: DE\:AD\:BE\:EF\nissuer name \:
L=Test\nsubject name \: ?\?=Test\nissued on \: 2009-01-01 00\:00\:00\nexpires on \: 2009-12-31
23\:59\:59\nsigned using \: RSA+MD2\nRSA key size \: 128 bits\n":0
X509 Certificate ASN1 (Name with X520 ST)
x509parse_crt:"308199308183a0030201008204deadbeef300d06092a864886f70d0101020500300f310d300b060355

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X509 Certificate ASN1 (Name with X520 O)
x509parse_crt:"30\130199308183a0030201008204deadbeef300d06092a864886f70d0101020500300f310d300b060355
040a130454657374301c170c3039331330130303030170c3039331332333359359300c310a3008060113
0454657374302a300d06092a864886f70d010101050001900300160210ffffffffffffffffffffffffffffffff0202ffff300d06
092a864886f70d01010205000030200ff":"cert. version \: 1
serial number \: DE\:AD\:BE\:EF
issuer name   
ST=Test
subject name  
: ??=Test
issued  on    
: 2009-01-01 00\:00\:00
expires on    
: 2009-12-31
signed using  
: RSA+MD2
RSA key size  
: 128 bits\:n":0

X509 Certificate ASN1 (Name with X520 OU)
x509parse_crt:"30\130199308183a0030201008204deadbeef300d06092a864886f70d0101020500300f310d300b060355
040b130454657374301c170c3039331330130303030170c3039331332333359359300c310a3008060113
0454657374302a300d06092a864886f70d010101050001900300160210ffffffffffffffffffffffffffffffff0202ffff300d06
092a864886f70d01010205000030200ff":"cert. version \: 1
serial number \: DE\:AD\:BE\:EF
issuer name   
OU=Test
subject name  
: ??=Test
issued  on    
: 2009-01-01 00\:00\:00
expires on    
: 2009-12-31
signed using  
: RSA+MD2
RSA key size  
: 128 bits\:n":0

X509 Certificate ASN1 (Name with unknown X520 part)
x509parse_crt:"30\130199308183a0030201008204deadbeef300d06092a864886f70d0101020500300f310d300b060355
04de130454657374301c170c3039331330130303030170c3039331332333359359300c310a3008060113
0454657374302a300d06092a864886f70d010101050001900300160210ffffffffffffffffffffffffffffffff0202ffff300d06
092a864886f70d01010205000030200ff":"cert. version \: 1
serial number \: DE\:AD\:BE\:EF
issuer name   
0xDE=Test
subject name  
: ??=Test
issued  on    
: 2009-01-01 00\:00\:00
expires on    
: 2009-12-31
signed using  
: RSA+MD2
RSA key size  
: 128 bits\:n":0

X509 Certificate ASN1 (Name with PKCS9 email)
x509parse_crt:"30\13019f308189a0030201008204deadbeef300d06092a864886f70d0101020500300f310d300b060355
04e1130454657374301c170c3039331330130303030170c3039331332333359359300c310a3008060113
0454657374302a300d06092a864886f70d010101050001900300160210ffffffffffffffffffffffffffffffff0202ffff300d06
092a864886f70d01010205000030200ff":"cert. version \: 1
serial number \: DE\:AD\:BE\:EF
issuer name   
0xDE=emailAddress=Test
subject name  
: ??=Test
issued  on    
: 2009-01-01 00\:00\:00
expires on    
: 2009-12-31
signed using  
: RSA+MD2
RSA key size  
: 128 bits\:n":0

X509 Certificate ASN1 (Name with unknown PKCS9 part)
x509parse_crt:"30\13019f308189a0030201008204deadbeef300d06092a864886f70d010102050030153113301106092a
864886f70d010901130454657374301c170c3039331330130303030170c3039331332333359359300c310a3008060113
0a30080601030454657374302a300d06092a864886f70d0101010500031900300160210ffffffffffffffffffffffff0202ffff300d06
092a864886f70d01010205000030200ff":"cert. version \: 1
serial number \: DE\:AD\:BE\:EF
issuer name   
0xDE=emailAddress=Test
subject name  
: ??=Test
issued  on    
: 2009-01-01 00\:00\:00
expires on    
: 2009-12-31
signed using  
: RSA+MD2
RSA key size  
: 128 bits\:n":0

X509 CRL ASN1 (Incorrect first tag)
x509parse_crl:"\":":POLARSSL_ERR_X509_CERT_INVALID_FORMAT
X509 CRL ASN1 (Correct first tag, data length does not match)
x509parse_crl:"300000":"":POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 CRL ASN1 (TBSCertList, tag missing)
x509parse_crl:"3000":"":POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 CRL ASN1 (TBSCertList, version tag len missing)
x509parse_crl:"3003300102":"":POLARSSL_ERR_X509_CERT_INVALID_VERSION + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 CRL ASN1 (TBSCertList, version correct, alg missing)
x509parse_crl:"300b3009020100300406000500":"":POLARSSL_ERR_X509_CERT_UNKNOWN_VERSION

X509 CRL ASN1 (TBSCertList, sig_oid1 id unknown)
x509parse_crl:"30143012020100300d06092a864886f70d01010f0500":"":POLARSSL_ERR_X509_CERT_UNKNOWN_SIG_ALG

X509 CRL ASN1 (TBSCertList, issuer set missing)
x509parse_crl:"30253023020100300d6092a864886f70d01010e05003000":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 CRL ASN1 (TBSCertList, correct issuer, thisUpdate missing)
x509parse_crl:"30343032020100300d6092a864886f70d01010e0500300f310d300b060355040313044124344":"":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 CRL ASN1 (TBSCertList, correct thisUpdate, nextUpdate missing, entries length missing)
x509parse_crl:"3039303130310030030030030303030":"":POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 CRL ASN1 (TBSCertList, entries present, invalid sig_alg)
x509parse_crl:"304a3047020100300d6092a864886f70d01010e0500300f310d300b060355040313044124344170c3039303130310030030303030303030":"":POLARSSL_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_UNEXPECTED_TAG
X509 CRL ASN1 (TBSCertList, entries present, date in entry invalid)
  x509parse_crl:"304a3047020100300d06092a864886f70d01010e0500300f310d300b060355040313044454494170c30393031303030303030301430128202abcd190c303833123333123335393539300d06092a864886f70d01010d0500":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 CRL ASN1 (TBSCertList, sig_alg present, sig_alg does not match)
  x509parse_crl:"30583047020100300d06092a864886f70d01010e0500300f310d300b060355040313044454494170c30393031303030303030303030301430128202abcd170c303833123333123335393539300d06092a864886f70d01010d0500":":POLARSSL_ERR_X509_CERT_SIG_MISMATCH

X509 CRL ASN1 (TBSCertList, sig present, len mismatch)
  x509parse_crl:"305d3047020100300d06092a864886f70d01010e0500300f310d300b060355040313044454494170c303930313030303030303030301430128202abcd170c303833123333123335393539300d06092a864886f70d01010e050030200100":":POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 CRL ASN1 (TBSCertList, sig present)
  x509parse_crl:"305c3047020100300d06092a864886f70d01010e0500300f310d300b060355040313044454494170c30393031303030303030303030301430128202abcd170c303833123333123335393539300d06092a864886f70d01010e05000302000100":":CRL version : 1
issuer name : CN=ABCD
this update : 2009-01-01 00:00:00
next update : 0000-00-00 00:00:00
Revoked certificates:
serial number: AB:CD revocation date: 2008-12-31 23:59:59
signed using : RSA+SHA224
":0

X509 CRL ASN1 (TBSCertList, no entries)
  x509parse_crl:"30463031020100300d06092a864886f70d01010e0500300f310d300b060355040313044454494170c303930313030303030303030301430128202abcd170c303833123333123335393539300d06092a864886f70d01010e05000302000100":":CRL version : 1
issuer name : CN=ABCD
this update : 2009-01-01 00:00:00
next update : 0000-00-00 00:00:00
Revoked certificates:
unsigned using : RSA+SHA224
":0

X509 Key ASN1 (Incorrect first tag)
  x509parse_key:"":":POLARSSL_ERR_X509_KEY_INVALID_FORMAT

X509 Key ASN1 (RSA Private Key, incorrect version tag)
  x509parse_key:"300100":":POLARSSL_ERR_X509_KEY_INVALID_FORMAT

X509 Key ASN1 (RSA Private Key, version tag missing)
  x509parse_key:"3000":":POLARSSL_ERR_X509_KEY_INVALID_FORMAT

X509 Key ASN1 (RSA Private Key, invalid version)
  x509parse_key:"3003020101":":POLARSSL_ERR_X509_KEY_INVALID_FORMAT

X509 Key ASN1 (RSA Private Key, correct version, incorrect tag)
  x509parse_key:"300402010000":":POLARSSL_ERR_X509_KEY_INVALID_FORMAT

X509 Key ASN1 (RSA Private Key, values present, length mismatch)
  x509parse_key:"301c0201000201002101002101020101020101020101020101020101020101020101020101020101020102010100":":POLARSSL_ERR_X509_KEY_INVALID_FORMAT
X509 Key ASN1 (RSAPrivateKey, values present, check_privkey fails)
x509parse_key:"301b020100020101020100201010201002010010201020102010201020102010201020102010201":"\nPOLARSSL_ERR_X509_KEY_INVALID_FORMAT
-----BEGIN RSA PRIVATE KEY-----
MIIEpQIBAAKCAQEuTxciijpXpJ5qSnF1JmGA58e1bYzqZBJre+Eal1cxyYM
ZBFIBWP/W4TsF24m7s5c1JiwU3WiHOb9ccvidtAa2BtgBrU9uVEmvHLzEu30kN
nQm37bH9PPO8+iTPXb985FPJbXqRCLpJtPqJS5mFnu4HHzsDL6J7fAzyjwvO
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zDBa+M1vzFEpZjK4eMf10fo9jd9abJqAH0X9wIDAQABOaIBACV0r5n2zDvTnzRG
X2j2sFSmegj5j6gTrdSyxJNL73d1EhoQXylnGmaIS5EGJoI7BY5KavZKTxGRB
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Sdz0FO+nncfwAk1/aTff3kgPd/qlsvnXfwnSPkbm9JZesHFSuWR1nDaQzZay+h0
g+gNerZweix+1pIPk7sW7AticQd0fioHuuD4+d7uQmCiUpNFgojr+Cx+CVGtw0eCB1o
74hnXxwPGj9ianEGstzWWV2g4h83a1TA2RvnGKssi0BisLw55KmHf0RPxz6cOBC
GMs/ruECgYEA9K00uYKDNSQ8dlmTaiOM9ppKPD2B++0xNf+8TKNhsLJdxsnUW
LgZegCl6exflYbTY6rXG5JfNADSc5u9D9oGa1mPqG7KAzpkZ1dVf/Nth04MAK
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ZR+5kYeSjnxLxVbhHGBCc44zcGnRl2wuzgZDQ+65rPnx5l6mEEmnizLudk7OSK7
XGZODu1W7t/CUj8aio6uHzPMSnSm1KJ+类Me3quKUH+eaeisEMXsK4zdVcksGTd
d4gYiYV+V+sQeceRqkJq3bLaa83FqrlJeZzp0CgYEAmGL70llbpBFvJvWxqc
lnsw+W+xy5v02ix2pDRROY15NSqF0bwExZOUcM0kQb1KbwjQCCdlcmm67+MCopSnDqi
ZZwfw3Puli27eV15bZid6f8nSU01jmk5Lh8dr77EemyBxKr7TiIS2rGDrHronEP
J5isDruuk9ovrT=1kNEOMCgYEaWOzyOzeyRk1aA8bg979B9NTEWyTc3ntLaI
rdWiKxV0nVeHqZWAHjbxrmbadLq1be8n6e7SrVR+V797naQLvKbpmOHd5/n5kr
7Bnr6N063EybVqQd44MTY4H8g/YL6hjGYQ5M2T/eQeVhrOHKFBRfKQ17kpDuCJ
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3W+ssM0br3l1DUPTUPRQPLYAmzQzWmJWEZU7Y55NtdG3R75NzB2AZff4V4+w4
YIEO2DGzLGsEZQV8n3FK3SeU1hVkJoyq4+y6yQ06Ybpa49xwbz2AJDu=
-----END RSA PRIVATE KEY-----
Camelia-128-ECB Encrypt RFC3713 #1
camellia_encrypt_ecb:"0123456789abcdeffedcba9876543210":"0123456789abcdeffedcba9876543210":"
7673138549669730857065648eabe43":0
Camelia-128-ECB Encrypt RFC3713 #1
camellia_encrypt_ecb:"0123456789abcdeffedcba987654321000112233445566778899aabbccdeeef":"0123456789abcdeffedcba9876543210":"
b4993401b3e996f84ee5ceee779b09b":0
Camelia-256-ECB Encrypt RFC3713 #1
camellia_encrypt_ecb:"0123456789abcdeffedcba987654321000112233445566778899aabbccdeeef":"0123456789abcdeffedcba9876543210":"
9acc237df16d76c20ef7c919e3a7509":0
Camelia-128-ECB Encrypt Perl EVP #1
camellia_encrypt_ecb:"000102030405060708090A0B0CD0DEOF":"00112233445566778899ABBCDDEEFFF":"77CF412067AF827061352914991546F":0
Camelia-128-ECB Encrypt Perl EVP #1
camellia_encrypt_ecb:"000102030405060708090A0B0CD0DEOF":"00112233445566778899ABBCDDEEFFF":"00112233445566778899A

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Camellia-256-ECB Encrypt Perl EVP #1
camellia_encrypt_ecb:”000102030405060708090A0B0C0D0E0F101112131415161718191A1B1C1D1E1F”:”001122334455667788899AABBCCDDEEFF”:”2EDF1F3418D53B88841FC8985FB1EFCF2”:0

Camellia-128-ECB Encrypt Perl EVP #1
camellia_encrypt_ecb:”2B7E151628AED2A6ABF7158809CF4F3C”:”6BC1BEE22E409F96E93D7E117393172A”:”432FC5DCD628115B7C388D770B270C96”:0

Camellia-128-ECB Encrypt Perl EVP #2
camellia_encrypt_ecb:”2B7E151628AED2A6ABF7158809CF4F3C”:”AE2D8A571E03AC9C9EB76FAC45AF8E51”:”0BE1F1402378A22E8384C5ABB7FAB2B”:0

Camellia-128-ECB Encrypt Perl EVP #3
camellia_encrypt_ecb:”2B7E151628AED2A6ABF7158809CF4F3C”:”30C81C46A35CE411E5FBC1191A0A52EF”:”A0A1ABCD1893AB6FE05EB65DF5F8636”:0

Camellia-128-ECB Encrypt Perl EVP #4
camellia_encrypt_ecb:”2B7E151628AED2A6ABF7158809CF4F3C”:”F69F2445DF4F9B17AD2B417BE66C3710”:”E61925E0D5DFAA9BB29F815B3076E51A”:0

Camellia-192-ECB Encrypt Perl EVP #1
camellia_encrypt_ecb:”8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B”:”6BC1BEE22E409F96E93D7E117393172A”:”CCCC6C4E138B45848514D48D0D3439D3”:0

Camellia-192-ECB Encrypt Perl EVP #2
camellia_encrypt_ecb:”8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B”:”AE2D8A571E03AC9C9EB76FAC45AF8E51”:”5713C62C14B2EC0F83936AFD6F5785A”:0

Camellia-192-ECB Encrypt Perl EVP #3
camellia_encrypt_ecb:”8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B”:”30C81C46A35CE411E5FBC1191A0A52EF”:”B40ED2B60EB540D9D030CF511FEEF366”:0

Camellia-192-ECB Encrypt Perl EVP #4
camellia_encrypt_ecb:”8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B”:”F69F2445DF4F9B17AD2B417BE66C3710”:”909DBD95799096748CB27357E73E1D26”:0

Camellia-256-ECB Encrypt Perl EVP #1
camellia_encrypt_ecb:”603DEB1015CA71BE2B73AEF0857D77811F3523C073B6108D72D9810A30914DF4”:”6BC1BEE22E409F96E93D7E117393172A”:”BEFD219B112FA00098919CD101C9CCFA”:0

Camellia-256-ECB Encrypt Perl EVP #2
camellia_encrypt_ecb:”603DEB1015CA71BE2B73AEF0857D77811F3523C073B6108D72D9810A30914DF4”:”AE2D8A571E03AC9C9EB76FAC45AF8E51”:”C91D3A8F1AEA08A9386CF4B66C0169EA”:0

Camellia-256-ECB Encrypt Perl EVP #3
camellia_encrypt_ecb:”603DEB1015CA71BE2B73AEF0857D77811F3523C073B6108D72D9810A30914DF4”:”3
Camellia-256-ECB Encrypt Perl EVP #4
```
camellia_encrypt_ecb:
"063DEB1015CA71BEB2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4": "069F2445DF4F9B17AD2B417BE66C3710": "7960109BF6DC42947FCFE59EA3C5EB6B":0
```
Camellia-128-CBC Encrypt Perl EVP #1
```
camellia_encrypt_cbc:
"2B7E151628AED2A6ABF7158809CF4F3C": "000102030405060708090A0B0C0D0E0F": "6BC1BEE22E409F96E93D7E117393172A": "1607CF494B36BBF00DAEB0B503C831AB":0
```
Camellia-128-CBC Encrypt Perl EVP #2
```
camellia_encrypt_cbc:
"2B7E151628AED2A6ABF7158809CF4F3C": "1607CF494B36BBF00DAEB0B503C831AB": "AE2D8A571E03AC9C9EB76FAC45AF8E51": "A2F2CF671629EF7840C5A5DFB5074887":0
```
Camellia-128-CBC Encrypt Perl EVP #3
```
camellia_encrypt_cbc:
"2B7E151628AED2A6ABF7158809CF4F3C": "A2F2CF671629EF7840C5A5DFB5074887": "30C81C46A35CE411E5FBC1191A0A52EF": "F06165008CF8B8B5A63586362543E54":0
```
Camellia-128-CBC Encrypt Perl EVP #4
```
camellia_encrypt_cbc:
"2B7E151628AED2A6ABF7158809CF4F3C": "36A84CDAFD5F9A85ADA0F0A993D6D7": "F69F2445DF4F9B17AD2B417BE66C3710": "74C64268CDB88FAF5B34E8AF3732980":0
```
Camellia-192-CBC Encrypt Perl EVP #1
```
camellia_encrypt_cbc:
"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B": "000102030405060708090A0B0C0D0E0F": "6BC1BEE22E409F96E93D7E117393172A": "2A4830AB5AC4A1A2405955FD2195CF93":0
```
Camellia-192-CBC Encrypt Perl EVP #2
```
camellia_encrypt_cbc:
"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B": "2A4830AB5AC4A1A2405955FD2195CF93": "AE2D8A571E03AC9C9EB76FAC45AF8E51": "5D5A869BD14CE54264F892A6DD2EC3D5":0
```
Camellia-192-CBC Encrypt Perl EVP #3
```
camellia_encrypt_cbc:
"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B": "5D5A869BD14CE54264F892A6DD2EC3D5": "30C81C46A35CE411E5FBC1191A0A52EF": "37D359C3349836D884E310ADDF68C449":0
```
Camellia-192-CBC Encrypt Perl EVP #4
```
camellia_encrypt_cbc:
"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B": "37D359C3349836D884E310ADDF68C449": "F69F2445DF4F9B17AD2B417BE66C3710": "01FAAA930B4AB9916E9668E1428C6B08":0
```
Camellia-256-ECB Encrypt Perl EVP #1
```
camellia_encrypt_ecb:
"603DEB1015CA71BEB2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4": "000102030405060708090A0B0C0D0E0F": "6BC1BEE22E409F96E93D7E117393172A": "E6CFA35FC02B134A4D2CB6737AC3EDA":0
```
Camellia-256-CBC Encrypt Perl EVP #2
```
camellia_encrypt_cbc:
"603DEB1015CA71BEB2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4": "E
6CFA35FC02B134A4D2C0B6737AC3EDA":":AE2D8A571E03AC9C9EB76FAC45AF8E51":":36CBE873BD504B4070B17DE2B21EB50":0

Camellia-256-CBC Encrypt Perl EVP #3
camellia_encrypt_cbc":"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4":"36CBE873BD504B4070B17DE2B21EB50":"30C81C46A35CE411E5FBC1191A0A52EF":"E31A6055297D96CA3330CDF1B1860A83":0

Camellia-256-CBC Encrypt Perl EVP #4
camellia_encrypt_cbc":"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4":"E31A6055297D96CA3330CDF1B1860A83":"6BC1BEE22E409F96E93D7E117393172A":"14F7646187817EB586599146B82BD719":0

Camellia-128-CFB128 Encrypt Perl EVP #1
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128":"2B7E151628AED2A6ABF7158809CF4F3C":"000102030405060708090A0B0C0D0E0F":"6BC1BEE22E409F96E93D7E117393172A":"14F7646187817EB586599146B82BD719":"AE2D8A571E03AC9C9EB76FAC45AF8E51":"A53D28BB82DF741103EA4F921A44880B"

Camellia-128-CFB128 Encrypt Perl EVP #2
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128":"2B7E151628AED2A6ABF7158809CF4F3C":"14F7646187817EB586599146B82BD719":"AE2D8A571E03AC9C9EB76FAC45AF8E51":"A53D28BB82DF741103EA4F921A44880B"

Camellia-128-CFB128 Encrypt Perl EVP #3
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128":"2B7E151628AED2A6ABF7158809CF4F3C":"A53D28BB82DF741103EA4F921A44880B":"30C81C46A35CE411E5FBC1191A0A52EF":"9C2157A664626D1DEF9EA420FDE69B96"

Camellia-128-CFB128 Encrypt Perl EVP #4
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128":"2B7E151628AED2A6ABF7158809CF4F3C":"9C2157A664626D1DEF9EA420FDE69B96":"F69F2445DF4F9B17AD2B417BE66C3710":"742A25F0542340C7BAEF24CA8482BB09"

Camellia-128-CFB128 Decrypt Perl EVP #1
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128":"2B7E151628AED2A6ABF7158809CF4F3C":"000102030405060708090A0B0C0D0E0F":"6BC1BEE22E409F96E93D7E117393172A":"14F7646187817EB586599146B82BD719":0

Camellia-128-CFB128 Decrypt Perl EVP #2
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128":"2B7E151628AED2A6ABF7158809CF4F3C":"14F7646187817EB586599146B82BD719":"AE2D8A571E03AC9C9EB76FAC45AF8E51":"A53D28BB82DF741103EA4F921A44880B"

Camellia-128-CFB128 Decrypt Perl EVP #3
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128":"2B7E151628AED2A6ABF7158809CF4F3C":"A53D28BB82DF741103EA4F921A44880B":"30C81C46A35CE411E5FBC1191A0A52EF":"9C2157A664626D1DEF9EA420FDE69B96"
Camellia-128-CFB128 Decrypt Perl EVP #4
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"2B7E151628AED2A6ABF7158809CF4F3C"":"9C2157A664626D1DEF9EA420FDE69B96"":"F69F2445DF4F9B17AD2B417BE66C3710"":"742A25F05423407BAEF24CA8482BB09"

Camellia-192-CFB128 Encrypt Perl EVP #1
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B"":"000102030405060708090A0B0C0D0E0F"":"6BC1BEE22E409F96E93D7E117393172A"":"C832BB9780677DA82D9B6860DCD565E"

Camellia-192-CFB128 Encrypt Perl EVP #2
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B"":"C832BB9780677DA82D9B6860DCD565E"":"AE2D8A571E03AC9C9EB76FAC45AF8E51"":"86F8491627906D780C7A6D46EA331F98"

Camellia-192-CFB128 Encrypt Perl EVP #3
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B"":"86F8491627906D780C7A6D46EA331F98"":"30C81C46A35CE411E5FBC1191A0A52EF"":"69511CCE594CF710CB98BB63D7221F01"

Camellia-192-CFB128 Encrypt Perl EVP #4
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B"":"69511CCE594CF710CB98BB63D7221F01"":"F69F2445DF4F9B17AD2B417BE66C3710"":"D5B5378A3ABED55803F25565D8907BB4"

Camellia-192-CFB128 Decrypt Perl EVP #1
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B"":"000102030405060708090A0B0C0D0E0F"":"6BC1BEE22E409F96E93D7E117393172A"":"C832BB9780677DA82D9B6860DCD565E"

Camellia-192-CFB128 Decrypt Perl EVP #2
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B"":"C832BB9780677DA82D9B6860DCD565E"":"AE2D8A571E03AC9C9EB76FAC45AF8E51"":"86F8491627906D780C7A6D46EA331F98"

Camellia-192-CFB128 Decrypt Perl EVP #3
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B"":"86F8491627906D780C7A6D46EA331F98"":"30C81C46A35CE411E5FBC1191A0A52EF"":"69511CCE594CF710CB98BB63D7221F01"

Camellia-192-CFB128 Decrypt Perl EVP #4
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camellia_decrypt_cfb128:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B":"69511CCE594CF710CB98BB63D7221F01":"F69F2445DF4F9B17AD2B417BE66C3710":"D5B5378A3ABED55803F25565D8907B84"

Camellia-256-CFB128 Encrypt Perl EVP #1
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DF4":"0001020304050607080900A0B0C0D0E0F":"6BC1BEEE22E409F96E93D7E117393172A":"CF6107BB0CEA7D7FB1BD31F5E7B06C93"

Camellia-256-CFB128 Encrypt Perl EVP #2
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DF4":"CF6107BB0CEA7D7FB1BD31F5E7B06C93":"AE2D8A571E03AC9C9EB76FAC45AF8E51":"89BEDB4CCDD864EA11BA4CBE849B5E2B"

Camellia-256-CFB128 Encrypt Perl EVP #3
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DF4":"89BEDB4CCDD864EA11BA4CBE849B5E2B":"30C81C46A35CE411E5FBC1191A0A52EF":"555FC3F34BDD2D54C62D9E3BF338C1C4"

Camellia-256-CFB128 Encrypt Perl EVP #4
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DF4":"555FC3F34BDD2D54C62D9E3BF338C1C4":"F69F2445DF4F9B17AD2B417BE66C3710":"5953ADCE14DB8C7F39F1BD39F359BFFA"

Camellia-256-CFB128 Decrypt Perl EVP #1
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DF4":"0001020304050607080900A0B0C0D0E0F":"6BC1BEEE22E409F96E93D7E117393172A":"CF6107BB0CEA7D7FB1BD31F5E7B06C93"

Camellia-256-CFB128 Decrypt Perl EVP #2
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DF4":"CF6107BB0CEA7D7FB1BD31F5E7B06C93":"AE2D8A571E03AC9C9EB76FAC45AF8E51":"89BEDB4CCDD864EA11BA4CBE849B5E2B"

Camellia-256-CFB128 Decrypt Perl EVP #3
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DF4":"89BEDB4CCDD864EA11BA4CBE849B5E2B":"30C81C46A35CE411E5FBC1191A0A52EF":"555FC3F34BDD2D54C62D9E3BF338C1C4"

Camellia-256-CFB128 Decrypt Perl EVP #4
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DF4":"555FC3F34BDD2D54C62D9E3BF338C1C4"
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128::"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4" :":555FC3F34BDD2D54C62D9E3BF338C1C4":"F69F2445DF4F9B17AD2B417BE66C3710":"5953ADCE14DB8 C7F39F1BD39F359BFFA"

Camellia-ECB Encrypt (Invalid key length)
camellia_encrypt_ecb::"0123456789abcdeffedcba98765432":"0123456789abcdeffedcba9876543210":"6767313854 9669730857065648eabe43":POLARSSL_ERR_CAMELLIA_INVALID_KEY_LENGTH

Camellia-ECB Decrypt (Invalid key length)
camellia_decrypt_ecb::"0123456789abcdeffedcba98765432":"0123456789abcdeffedcba9876543210":"6767313854 9669730857065648eabe43":POLARSSL_ERR_CAMELLIA_INVALID_KEY_LENGTH

Camellia-256-CBC Encrypt (Invalid input length)
camellia_encrypt_cbc::"0000000000000000000000000000000000000000000000000000000000000000":"00000000 000000000000000000000000":"fffffffffffffff00000000000000":"":POLARSSL_ERR_CAMELLIA_INVALID_INPUT_LENGTH

Camellia-256-CBC Decrypt (Invalid input length)
camellia_decrypt_cbc::"0000000000000000000000000000000000000000000000000000000000000000":"00000000 000000000000000000000000":"623a52fcea5d443e48d9181ab32c74":"":POLARSSL_ERR_CAMELLIA_INVALID_INPUT_LENGTH

Camellia Selftest
depends_on:POLARSSL_SELF_TEST
camellia_selftest:
Certificate:
Data:
    Version: 3 (0x2)
    Serial Number: 17 (0x11)
Signature Algorithm: sha1WithRSAEncryption
    Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
    Validity
        Not Before: May 10 13:23:41 2012 GMT
        Not After : May 11 13:23:41 2022 GMT
    Subject: C=NL, O=PolarSSL, CN=www.example.com
Subject Public Key Info:
    Public Key Algorithm: rsaEncryption
    Public-Key: (2048 bit)
        Modulus:
            be:11:ad:5e:73:16:0c:64:11:48:04:ff:d6:e1:3b:  

How to setup your own Certificate Authority

Note: this howto requires the openssl binary, as well as classic UNIX tools (cat, touch, echo). If you use Windows, please consider installing Cygwin -- see http://cygwin.com/

1. Configure OpenSSL

First of all, create sslconf.txt in the current directory (a basic example is provided at the end of this file).

cat > sslconf.txt <<"EOF"
[paste contents here]
EOF

Then you need to create the database and a starting serial number:

touch index
echo "01" > serial
mkdir newcerts

2. Generate the CA certificate

openssl req -config sslconf.txt -days 3653 -x509 -newkey rsa:2048
   -set_serial 0 -text -keyout test-ca.key -out test-ca.crt

3. Generate the private keys and certificate requests

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openssl genrsa -out server1.key 2048
openssl genrsa -out server2.key 2048
openssl genrsa -out client1.key 2048
openssl genrsa -out client2.key 2048

openssl req -config sslconf.txt -new -key server1.key -out server1.req
openssl req -config sslconf.txt -new -key server2.key -out server2.req
openssl req -config sslconf.txt -new -key client1.key -out client1.req
openssl req -config sslconf.txt -new -key client2.key -out client2.req

4. Issue and sign the certificates
----------------------------------

openssl ca -config sslconf.txt -in server1.req -out server1.crt
openssl ca -config sslconf.txt -in server2.req -out server2.crt
openssl ca -config sslconf.txt -in client1.req -out client1.crt
openssl ca -config sslconf.txt -in client2.req -out client2.crt

5. To revoke a certificate and update the CRL
----------------------------------------------

openssl ca -config sslconf.txt -revoke server1.crt
openssl ca -config sslconf.txt -revoke client1.crt
openssl ca -config sslconf.txt -gencrl -out crl.pem

6. To display a certificate and verify its validity
-----------------------------------------------

openssl x509 -in server2.crt -text -noout
cat test-ca.crt crl.pem > ca_crl.pem
openssl verify -CAfile ca_crl.pem -crl_check server2.crt
rm ca_crl.pem

7. To export a certificate into a .pfx file
-------------------------------------------

openssl pkcs12 -export -in client2.crt -inkey client2.key \
    -out client2.pfx

###================================================================
###============== Example OpenSSL configuration file ==============
###================================================================
# References:

# /etc/ssl/openssl.conf
# http://www.openssl.org/docs/apps/config.html
# http://www.openssl.org/docs/apps/x509v3_config.html

```
[ ca ]
default_ca = my_ca

[ my_ca ]
certificate = test-ca.crt
private_key = test-ca.key
database = index
serial = serial

new_certs_dir = newcerts
default_crl_days = 60
default_days = 730
default_md = sha1
policy = my_policy
x509_extensions = v3_usr

[ my_policy ]
countryName = optional
stateOrProvinceName = optional
organizationName = match
organizationalUnitName = optional
commonName = supplied
emailAddress = optional

[ req ]
distinguished_name = my_req_dn
x509_extensions = v3_ca

[ my_req_dn ]
countryName = Country Name.............
countryName_min = 2
countryName_max = 2
stateOrProvinceName = State or Province Name....
localityName = Locality Name............
0.organizationName = Organization Name........
organizationalUnitName = Org. Unit Name........
commonName = Common Name (required)....
commonName_max = 64
emailAddress = Email Address.............
emailAddress_max = 64
```

[ v3_ca ]
basicConstraints = CA:TRUE
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid:always,issuer:always

[ v3_usr ]
basicConstraints = CA:FALSE
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid,issuer

option(USE_SHARED_POLARSSL_LIBRARY "Build PolarSSL as a shared library." OFF)

set(src
  aes.c
  arc4.c
  asn1parse.c
  asn1write.c
  base64.c
  bignum.c
  blowfish.c
  camellia.c
  certs.c
  cipher.c
  cipher_wrap.c
  ctr_drbg.c
  debug.c
  des.c
  dhm.c
  entropy.c
  entropy_poll.c
  error.c
  gcm.c
  havege.c
  md.c
  md_wrap.c
  md2.c
  md4.c
  md5.c
  net.c
  padlock.c
  pbkdf2.c
  pem.c
  pkcs5.c
  pkcs11.c
  pkcs12.c
  rsa.c
  sha1.c
  sha2.c
  sha4.c
ssl_cache.c
ssl_cli.c
ssl_srv.c
ssl_tls.c
timing.c
version.c
x509parse.c
x509write.c
xtea.c

if(WIN32)
    set(libs ws2_32)
endif(WIN32)

if(NOT USE_SHARED_POLARSSL_LIBRARY)
    add_library(polarssl STATIC ${src})
else(NOT USE_SHARED_POLARSSL_LIBRARY)
    add_library(polarssl SHARED ${src})
    set_target_properties(polarssl PROPERTIES VERSION 1.2.8 SOVERSION 2)
endif(NOT USE_SHARED_POLARSSL_LIBRARY)

target_link_libraries(polarssl ${libs})

install(TARGETS polarssl
        DESTINATION ${LIB_INSTALL_DIR}
        PERMISSIONS OWNER_READ OWNER_WRITE OWNER_EXECUTE GROUP_READ GROUP_EXECUTE WORLD_READ WORLD_EXECUTE)

AES-ECB Encrypt (Invalid keylength)
aes_encrypt_ecb:"0000000000000000000000000000000000000000000000000000000000000000":"f34481ec3cc627baczd3fb08f273e6":"0336763e966d92595a567cc9ee53f5e":POLARSSL_ERR_AES_INVALID_KEY_LENGTH

AES-ECB Decrypt (Invalid keylength)
aes_decrypt_ecb:"0000000000000000000000000000000000000000000000000000000000000000":"f34481ec3cc627baczd3fb08f273e6":"0336763e966d92595a567cc9ee53f5e":POLARSSL_ERR_AES_INVALID_KEY_LENGTH

AES-256-CBC Encrypt (Invalid input length)
aes_encrypt_cbc:"0000000000000000000000000000000000000000000000000000000000000000":"f34481ec3cc627baczd3fb08f273e6":"0336763e966d92595a567cc9ee53f5e":POLARSSL_ERR_AES_INVALID_INPUT_LENGTH

AES-256-CBC Decrypt (Invalid input length)
aes_decrypt_cbc:"0000000000000000000000000000000000000000000000000000000000000000":"623a52fcea5d443e48d9181ab32e74":"623a52fcea5d443e48d9181ab32e74":POLARSSL_ERR_AES_INVALID_INPUT_LENGTH
ENGTH
AES Selftest
depends_on:POLARSSL_SELF_TEST
aes_selftest:
<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" ToolsVersion="4.0"
xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
<ItemGroup Label="ProjectConfigurations">
<ProjectConfiguration Include="Debug|Win32">
<Configuration>Debug</Configuration>
<Platform>Win32</Platform>
</ProjectConfiguration>
<ProjectConfiguration Include="Debug|x64">
<Configuration>Debug</Configuration>
<Platform>x64</Platform>
</ProjectConfiguration>
<ProjectConfiguration Include="Release|Win32">
<Configuration>Release</Configuration>
<Platform>Win32</Platform>
</ProjectConfiguration>
<ProjectConfiguration Include="Release|x64">
<Configuration>Release</Configuration>
<Platform>x64</Platform>
</ProjectConfiguration>
</ItemGroup>
<ItemGroup>
<ClCompile Include="..\..\programs\pkey\rsa_sign_pss.c" />
</ItemGroup>
<ItemGroup>
<ProjectReference Include="PolarSSL.vcxproj">
<Project>{46cf2d25-6a36-4189-b59c-e4815388e554}</Project>
</ProjectReference>
</ItemGroup>
<PropertyGroup Label="Globals">
<ProjectGuid>{FAAA2021-DF20-436F-AE12-9AD91C34C0B4}</ProjectGuid>
<Keyword>Win32Proj</Keyword>
<RootNamespace>rsa_sign_pss</RootNamespace>
</PropertyGroup>
<Import Project="$(VCTargetsPath)\Microsoft.Cpp.Default.props" />
<PropertyGroup Condition="'$(Configuration)|$(Platform)'=='Debug|Win32'" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>true</UseDebugLibraries>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
<PropertyGroup Condition="'$(Configuration)|$(Platform)'=='Debug|x64'" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>true</UseDebugLibraries>

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<Optimization>MaxSpeed</Optimization>
<FunctionLevelLinking>true</FunctionLevelLinking>
<IntrinsicFunctions>true</IntrinsicFunctions>

<PreprocessorDefinitions>WIN32;NDEBUG;_CONSOLE;%{(PreprocessorDefinitions)}</PreprocessorDefinitions>
<AdditionalIncludeDirectories>../include</AdditionalIncludeDirectories>
</ClCompile>
</Link>
</ItemDefinitionGroup>

<ItemDefinitionGroup Condition=""$(Configuration)|$(Platform)"="Release|x64">
<ClCompile>
<WarningLevel>Level3</WarningLevel>
</PrecompiledHeader>
<Optimization>MaxSpeed</Optimization>
<FunctionLevelLinking>true</FunctionLevelLinking>
<IntrinsicFunctions>true</IntrinsicFunctions>
<PreprocessorDefinitions>WIN64;NDEBUG;_CONSOLE;%{(PreprocessorDefinitions)}</PreprocessorDefinitions>
<AdditionalIncludeDirectories>../include</AdditionalIncludeDirectories>
</ClCompile>
</Link>
</ItemDefinitionGroup>

<Import Project="$(VCTargetsPath)\Microsoft.Cpp.targets" />
</ImportGroup>
</Project>

Certificate:
Data:
  Version: 3 (0x2)
  Serial Number: 16 (0x10)
  Signature Algorithm: sha1WithRSAEncryption
  Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
Validity
Not Before: Feb 11 17:25:55 2012 GMT
Not After : Feb 11 17:25:55 2022 GMT
Subject: C=NL, O=PolarSSL, CN=www.example.com
Subject Public Key Info:
Public Key Algorithm: rsaEncryption
Public-Key: (2048 bit)
Modulus:
00:b9:3c:4a:c5:c8:a3:8e:90:17:a4:9e:52:aa:71:
be:11:ad:5c:73:16:0e:64:11:48:04:ff:d6:e1:3b:
07:67:0b:03:2f:ea:20:09:ed:ff:33:8f:0b:ce:10:ef:
6e:ec:75:25:ff:b7:7b:df:ab:2a:3a:5a:91:98:7d:
97:17:0b:13:0a:7:6b:4a:8b:c1:47:30:ff:3a:f8:
ca:01:e3:35:7f:fa:20:ff:dc:fd:69:b2:6a:00:7d:
17:ff
Exponent: 65537 (0x10001)
X509v3 extensions:
  X509v3 Basic Constraints:
    CA:FALSE
  X509v3 Subject Key Identifier:
  X509v3 Authority Key Identifier:

X509v3 Subject Alternative Name:
  DNS:www.example.com, DNS:example.com, DNS:example.net, DNS:*._example.org
Signature Algorithm: sha1WithRSAEncryption
add_executable(dh_client dh_client.c)
target_link_libraries(dh_client polarssl)
add_executable(dh_genprime dh_genprime.c)
target_link_libraries(dh_genprime polarssl)
add_executable(dh_server dh_server.c)
target_link_libraries(dh_server polarssl)
add_executable(key_app key_app.c)
target_link_libraries(key_app polarssl)
add_executable(key_app_writer key_app_writer.c)
target_link_libraries(key_app_writer polarssl)
add_executable(mpi_demo mpi_demo.c)
target_link_libraries(mpi_demo polarssl)
add_executable(rsa_genkey rsa_genkey.c)
target_link_libraries(rsa_genkey polarssl)
add_executable(rsa_sign rsa_sign.c)

target_link_libraries(rsa_sign polarssl)

add_executable(rsa_verify rsa_verify.c)
target_link_libraries(rsa_sign rsa_verify_pss rsa_sign_pss polarssl)

add_executable(rsa_sign rsa_sign_pss rsa_verify_pss rsa_verify rsa_encrypt rsa_decrypt polarssl)

add_executable(rsa_decrypt rsa_decrypt.c)
target_link_libraries(rsa_decrypt rsa_encrypt rsa_decrypt_polarssl)

install(TARGETS dh_client dh_genprime dh_server key_app mpi_demo rsa_genkey rsa_sign rsa_verify rsa_encrypt rsa_decrypt

DESTINATION "bin"

PERMISSIONS OWNER_READ OWNER_WRITE OWNER_EXECUTE GROUP_READ

GROUP_EXECUTE WORLD_READ WORLD_EXECUTE)

-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAwU2j3efNHDEEE10lyuJmsDnjkOjxKzzoTfB0aM2jAIn1h7r
lqStJdVLJ6PiSaLY0CT1d+AmZlycsCh9odrjOhHlJa+sEEUrM21KP64bf2
2JDBybRmUjaiIOqv3RgRioZqsz2B+e2Q0cLulm91slc0boC4pPaQy1AJDh2oilQ
Zn2uVCULZxmRoehjw81ASQjuaZxxi4bSRr/QuRkoRAx5/VqGahKQYDw+F9qFqLRF7i
GMZILKdnjpf2H3z4kFAcWQDj8n8TDIG7v17HxydrwU9esQCPJodPg/oNhbj
y3NLUpbYeaslghlpOVrTDD7eWS8x/rfqEqEw1wIDAQAABAOIBAQCCRX0S8IEHFGORZ
++AqO6eEXNd+xVsof1IeGz5Tjo3QnXXV7BNZDj+p1ECvnCE/G7XnkgU5hLZX+G
Z0jzk/ziOj0rY5sL.BhipHnWouyBQ4e/A1yJdlBtqXj1KE/ituHRnc4j4L8Z
/6p6vwnnT10PSx2Eqs048yDsd92LT6qAv4flhNdMXnMn2uY7s4ycS4Q8w1JxNcAanYm
WY15wxo+bv+REIL2RCzzDmVnL8jRyml6f6582w5ouReFblyPzbQWX1gynp6ueHe
GTC7E12KYGQGg/9+DQUIv1QucPQqwnY0QoX2w5DypdMdVm+zzkLbajzTvJia
TWzL6lt5AoGBAN86+sVJE/DcmQJc4vE6uUtRt4qGDMiQMz0Sod0ettYxYzmgxtw28
ClrgpozCc+UaZJLo7UxvC6anF5y2nKPCQFaggJoH04Q0J/sZOhbIXaoQZxXeK
nupeKeDvGsFisC8DY6DBfieFivFj++47BbaQzPBjC74rK7ULJab2rDa0GBAN2u
AM2gcho4u1HFL87lweEp162zTjnuEdu/dEgGQFJfwpdLnPbsy4c75odQ4Gz8g
sw9laao9VVZbusoRE/JG14aTdT00pATXY7G7e1GQu+5Yc1YGXcCrlia2xM9xx+d7f+s
mpZ+nWIEgSWDYZdjAzhHGS5Nh/Vi/Fm1c9dOyj2/v2dAoGAF0t5KwbjWHBhcVqO4lc
BVvN3tJc1ue2YRXEDlXy5b0r8N4XcEmGvKtW180HApZzf8uPDauWZLXQOg4eupw
whZC3EuWr5yy1CnHlY21Ah7hIEBPF3L3ZsOwC+UERl+dXWLDb56yjg3ZaBeW7b
vDrEnocJqcm7IukhXOBK85CGYEawqdB0hqyNSzI0G7y9vabz6pUD43BiQvEs
3LjHVd4HPJ2x0N8cgrBIW0EOq8+,0hSMMeE96WW7/jD3IPFWwCR5zLXnxnQsV0gP
3BCC5PrOQydzp+d9zwFm625kyiy/47hzwHDeZuZhNk1CF+H7Q+TEnLmWAQBED
ISOAWmRuUCgYAFEnRrgxAc+D60sycCwAh6F0tscq9Y0T9GyWk89NzgC4NdwbdWB
4Agah0IxxX2gJnq3fykJfljfw0s2DyP0k2y6u1A0eomPeY9mmrIS4tDQ6LrE
TB6f9VGoxjL4yfHyZb8L5gVbnB1bbd8ocL6YPaDnOhcRseC9vBieEuVg==
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<ProjectGuid>{4B44D0A4-DE85-4C15-A1FF-A334C0A1EFF2}</ProjectGuid>
<Keyword>Win32Proj</Keyword>
<RootNamespace>selftest</RootNamespace>
</PropertyGroup>
<Import Project="$(VCTargetsPath)\Microsoft.Cpp.Default.props" />
<PropertyGroup Condition="$(Configuration)|$(Platform) == 'Debug|Win32'" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>true</UseDebugLibraries>
  <CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
<PropertyGroup Condition="$(Configuration)|$(Platform) == 'Debug|x64'" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>true</UseDebugLibraries>
  <CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
<PropertyGroup Condition="$(Configuration)|$(Platform) == 'Release|Win32'" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>false</UseDebugLibraries>
  <WholeProgramOptimization>true</WholeProgramOptimization>
  <CharacterSet>Unicode</CharacterSet>
  <PlatformToolset>Windows7.1SDK</PlatformToolset>
</PropertyGroup>
<Import Project="$(VCTargetsPath)\Microsoft.Cpp.props" />
<ImportGroup Label="ExtensionSettings" />
<ImportGroup Label="PropertySheets" Condition="$(Configuration)|$(Platform) == 'Debug|Win32'">
</ImportGroup>
<ImportGroup Label="PropertySheets" Condition="$(Configuration)|$(Platform) == 'Debug|x64'">
</ImportGroup>
<ImportGroup Label="PropertySheets" Condition="$(Configuration)|$(Platform) == 'Release|Win32'">
</ImportGroup>
<ImportGroup Label="PropertySheets" Condition="$(Configuration)|$(Platform) == 'Release|x64'">
</ImportGroup>
<PropertyGroup Label="UserMacros" />
2.lib;oleaut32.lib;uuid.lib;odbccp32.lib;%AdditionalDependencies;PolarSSL.lib</AdditionalDependencies>

<AdditionalLibraryDirectories>Debug</AdditionalLibraryDirectories>
</Link>

<ProjectReference>
<LinkLibraryDependencies>false</LinkLibraryDependencies>
</ProjectReference>
</ItemDefinitionGroup>
<ItemDefinitionGroup Condition="$(Configuration)|$(Platform) == 'Release|Win32'">

<ClCompile>
<WarningLevel>Level3</WarningLevel>
</PrecompiledHeader>
</PrecompiledHeader>
<Optimization>MaxSpeed</Optimization>
<FunctionLevelLinking>true</FunctionLevelLinking>
<IntrinsicFunctions>true</IntrinsicFunctions>
<PreprocessorDefinitions>WIN32;NDEBUG;_CONSOLE;%AdditionalIncludeDirectories>.../include</PreprocessorDefinitions>
</ClCompile>

<Link>
<brSubSystem>Console</SubSystem>
<GenerateDebugInformation>true</GenerateDebugInformation>
<EnableCOMDATFolding>true</EnableCOMDATFolding>
<OptimizeReferences>true</OptimizeReferences>
<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
<AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbccp32.lib;%AdditionalDependencies;PolarSSL.lib</AdditionalDependencies>
</Link>
</ItemDefinitionGroup>
<ItemDefinitionGroup Condition="$(Configuration)|$(Platform) == 'Release|x64'">

<ClCompile>
<WarningLevel>Level3</WarningLevel>
</PrecompiledHeader>
</PrecompiledHeader>
<Optimization>MaxSpeed</Optimization>
<FunctionLevelLinking>true</FunctionLevelLinking>
<IntrinsicFunctions>true</IntrinsicFunctions>
<PreprocessorDefinitions>WIN64;NDEBUG;_CONSOLE;%AdditionalIncludeDirectories>.../include</PreprocessorDefinitions>
</ClCompile>

<Link>
<brSubSystem>Console</SubSystem>
<GenerateDebugInformation>true</GenerateDebugInformation>
<EnableCOMDATFolding>true</EnableCOMDATFolding>
<OptimizeReferences>true</OptimizeReferences>
<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
</Link>
</ItemDefinitionGroup>
<UseDebugLibraries>true</UseDebugLibraries>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Release|Win32" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>false</UseDebugLibraries>
<WholeProgramOptimization>true</WholeProgramOptimization>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Release|x64" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>false</UseDebugLibraries>
<WholeProgramOptimization>true</WholeProgramOptimization>
<CharacterSet>Unicode</CharacterSet>
<PlatformToolset>Windows7.1SDK</PlatformToolset>
</PropertyGroup>

<Import Project="$(VCTargetsPath)\Microsoft.Cpp.props" />
<ImportGroup Label="ExtensionSettings" />

<ImportGroup Label="PropertySheets" Condition=""$(Configuration)|$(Platform)="Debug|Win32"">
</ImportGroup>

<ImportGroup Condition=""$(Configuration)|$(Platform)="Debug|x64" Label="PropertySheets">
</ImportGroup>

<ImportGroup Label="PropertySheets" Condition=""$(Configuration)|$(Platform)="Release|Win32"">
</ImportGroup>

<ImportGroup Condition=""$(Configuration)|$(Platform)="Release|x64" Label="PropertySheets">
</ImportGroup>

<PropertyGroup Label="UserMacros" />

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Debug|Win32"">
<LinkIncremental>true</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Debug|x64"">
<LinkIncremental>true</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Release|Win32"">
<LinkIncremental>false</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Release|x64"">
<LinkIncremental>false</LinkIncremental>
</PropertyGroup>
<ItemDefinitionGroup Condition=""$(Configuration)|$(Platform)''=='Debug|Win32''">
  <ClCompile>
    <PrecompiledHeader/>
    <WarningLevel>Level3</WarningLevel>
    <Optimization>Disabled</Optimization>
    <PreprocessorDefinitions>WIN32;_DEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
    <AdditionalIncludeDirectories>../..\include</AdditionalIncludeDirectories>
  </ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <ShowProgress>NotSet</ShowProgress>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
    <AdditionalLibraryDirectories>Debug</AdditionalLibraryDirectories>
  </Link>
  <ProjectReference />
</ItemDefinitionGroup>

<ItemDefinitionGroup Condition=""$(Configuration)|$(Platform)''=='Debug|x64''">
  <ClCompile>
    <PrecompiledHeader/>
    <WarningLevel>Level3</WarningLevel>
    <Optimization>Disabled</Optimization>
    <PreprocessorDefinitions>WIN32;_DEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
    <AdditionalIncludeDirectories>../../include</AdditionalIncludeDirectories>
  </ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <ShowProgress>NotSet</ShowProgress>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
    <AdditionalLibraryDirectories>Debug</AdditionalLibraryDirectories>
  </Link>
  <ProjectReference />
</ItemDefinitionGroup>

<ItemDefinitionGroup Condition=""$(Configuration)|$(Platform)''=='Release|Win32''">
  <ClCompile>
    <WarningLevel>Level3</WarningLevel>
    <PrecompiledHeader/>
    <Optimization>Disabled</Optimization>
    <PreprocessorDefinitions>WIN32;_DEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
    <AdditionalIncludeDirectories>../..\include</AdditionalIncludeDirectories>
  </ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <ShowProgress>NotSet</ShowProgress>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
    <AdditionalLibraryDirectories>Debug</AdditionalLibraryDirectories>
  </Link>
  <ProjectReference />
</ItemDefinitionGroup>

<ItemDefinitionGroup Condition=""$(Configuration)|$(Platform)''=='Release|x64''">
  <ClCompile>
    <WarningLevel>Level3</WarningLevel>
    <PrecompiledHeader/>
    <Optimization>Disabled</Optimization>
    <PreprocessorDefinitions>WIN32;_DEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
    <AdditionalIncludeDirectories>../../include</AdditionalIncludeDirectories>
  </ClCompile>
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</GenerateDebugInformation>
    <ShowProgress>NotSet</ShowProgress>
    <AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
    <AdditionalLibraryDirectories>Debug</AdditionalLibraryDirectories>
  </Link>
  <ProjectReference />
</ItemDefinitionGroup>
<PrecompiledHeader>
<Optimization>MaxSpeed</Optimization>
</PrecompiledHeader>

<FunctionLevelLinking>true</FunctionLevelLinking>
<IntrinsicFunctions>true</IntrinsicFunctions>

<PreprocessorDefinitions>WIN32;NDEBUG;_CONSOLE;%{PreprocessorDefinitions}</PreprocessorDefinitions>
<AdditionalIncludeDirectories>./include</AdditionalIncludeDirectories>
</ClCompile>

<Link>
<SubSystem>Console</SubSystem>
<GenerateDebugInformation>true</Generate_DebugInformation>
<EnableCOMDATFolding>true</EnableCOMDATFolding>
<OptimizeReferences>true</OptimizeReferences>
<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
<AdditionalDependencies>kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;advapi32.lib;shell32.lib;ole32.lib;oleaut32.lib;uuid.lib;odbc32.lib;odbccp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
</Link>

<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)="Release|x64">
<ClCompile>
<WarningLevel>Level3</WarningLevel>
<PrecompiledHeader>
</PrecompiledHeader>
<Optimization>MaxSpeed</Optimization>
<FunctionLevelLinking>true</FunctionLevelLinking>
<IntrinsicFunctions>true</IntrinsicFunctions>
<PreprocessorDefinitions>WIN64;NDEBUG;_CONSOLE;%{PreprocessorDefinitions}</PreprocessorDefinitions>
<AdditionalIncludeDirectories>./include</AdditionalIncludeDirectories>
</ClCompile>

<Link>
<SubSystem>Console</SubSystem>
<GenerateDebugInformation>true</GenerateDebugInformation>
<EnableCOMDATFolding>true</EnableCOMDATFolding>
<OptimizeReferences>true</OptimizeReferences>
<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
<AdditionalDependencies>%(AdditionalDependencies);</AdditionalDependencies>
</Link>
</ItemDefinitionGroup>

<Import Project="$(VCTargetsPath)\Microsoft.Cpp.targets" />
<ImportGroup Label="ExtensionTargets" />
</ImportGroup>
</Project>
00

*H
0as6DXtvM-1\6Dod+xGOfeyk3b1 <ht+5/P?:o%qy<<Ea`_SHQ
nB°=;YXnngg 0hUQ)V!AP]sP\XPV\wcj?/HMH:;Vhb_
i[Ql+k.F7^ofb57
wws3"_.09"Tk7L19A@2@LhSIE
Open Source Used In HyperFlex HX Data Platform 5.0(1a) 17065

Certificate:

Data:

Version: 3 (0x2)
Serial Number: 4 (0x4)
Signature Algorithm: sha1WithRSAEncryption
Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
Validity
   Not Before: Feb 12 14:44:07 2011 GMT
   Not After : Feb 12 14:44:07 2021 GMT
Subject: C=NL, O=PolarSSL, CN=PolarSSL Client 2
Subject Public Key Info:
   Public Key Algorithm: rsaEncryption
   RSA Public Key: (2048 bit)
      Modulus (2048 bit):
      7d:bb:93:f2:6b:1e:9f:33:ad:0d:8f:8a:3c:56:65:
      63:9e:0a:6e:1b:b7:da:f0:7e:ab:ee:0c:10:93:86:
      88:30:2e:42:2b:df:7d:eb:e5:0c:77:ff:ec:31:c0:
      f8:ca:a4:b1:25:e0:fe:3c:8b:35:04:67:ba:e0:4f:
      21:5f
      Exponent: 65537 (0x10001)
X509v3 extensions:
   X509v3 Basic Constraints:
      CA:FALSE
   X509v3 Subject Key Identifier:
   X509v3 Authority Key Identifier:
ARC4 Selftest
depends_on:POLARSSL_SELF_TEST
arc4_selftest:
Cipher Selftest
depends_on:POLARSSL_SELF_TEST
cipher_selftest:

Decrypt empty buffer
dec_empty_buf:

BLOWFISH Encrypt and decrypt 0 bytes
depends_on:POLARSSL_BLOWFISH_C
cenc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:0

BLOWFISH Encrypt and decrypt 1 byte
depends_on:POLARSSL_BLOWFISH_C
cenc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:1

BLOWFISH Encrypt and decrypt 2 bytes
depends_on:POLARSSL_BLOWFISH_C
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:2

BLOWFISH Encrypt and decrypt 7 bytes
depends_on:POLARSSL_BLOWFISH_C

BLOWFISH Encrypt and decrypt 8 bytes
depends_on:POLARSSL_BLOWFISH_C
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:8

BLOWFISH Encrypt and decrypt 9 bytes
depends_on:POLARSSL_BLOWFISH_C

BLOWFISH Encrypt and decrypt 15 bytes
depends_on:POLARSSL_BLOWFISH_C
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:15

BLOWFISH Encrypt and decrypt 16 bytes
depends_on:POLARSSL_BLOWFISH_C
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:16

BLOWFISH Encrypt and decrypt 17 bytes
depends_on:POLARSSL_BLOWFISH_C
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:17

BLOWFISH Encrypt and decrypt 31 bytes
depends_on:POLARSSL_BLOWFISH_C

BLOWFISH Encrypt and decrypt 32 bytes
depends_on:POLARSSL_BLOWFISH_C

BLOWFISH Encrypt and decrypt 32 bytes
depends_on:POLARSSL_BLOWFISH_C
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:33

BLOWFISH Encrypt and decrypt 47 bytes
depends_on:POLARSSL_BLOWFISH_C

BLOWFISH Encrypt and decrypt 48 bytes
depends_on:POLARSSL_BLOWFISH_C

BLOWFISH Encrypt and decrypt 49 bytes
depends_on:POLARSSL_BLOWFISH_C
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:49

BLOWFISH Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CBC:128:0:0:

BLOWFISH Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CBC:128:1:0:

BLOWFISH Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CBC:128:0:1:

BLOWFISH Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CBC:128:16:0:

BLOWFISH Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CBC:128:0:16:

BLOWFISH Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CBC:128:1:15:

BLOWFISH Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CBC:128:15:1:

BLOWFISH Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CBC:128:15:7:

BLOWFISH Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CBC:128:16:6:

BLOWFISH Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CBC:128:17:6:

BLOWFISH Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CBC:128:16:16:

BLOWFISH Encrypt and decrypt 0 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:0

BLOWFISH Encrypt and decrypt 1 byte
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:1

BLOWFISH Encrypt and decrypt 2 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:2

BLOWFISH Encrypt and decrypt 7 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:7

BLOWFISH Encrypt and decrypt 8 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:8

BLOWFISH Encrypt and decrypt 9 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:9

BLOWFISH Encrypt and decrypt 15 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:15

BLOWFISH Encrypt and decrypt 16 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:16

BLOWFISH Encrypt and decrypt 17 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:17

BLOWFISH Encrypt and decrypt 31 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:31

BLOWFISH Encrypt and decrypt 32 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:32

BLOWFISH Encrypt and decrypt 32 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:33

BLOWFISH Encrypt and decrypt 47 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CFB64:128:17:6:

BLOWFISH Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CFB64:128:16:16:

BLOWFISH Encrypt and decrypt 0 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:0

BLOWFISH Encrypt and decrypt 1 byte
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:1

BLOWFISH Encrypt and decrypt 2 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:2

BLOWFISH Encrypt and decrypt 7 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR

BLOWFISH Encrypt and decrypt 8 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:8

BLOWFISH Encrypt and decrypt 9 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:9

BLOWFISH Encrypt and decrypt 15 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:15

BLOWFISH Encrypt and decrypt 16 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:16

BLOWFISH Encrypt and decrypt 17 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:17

BLOWFISH Encrypt and decrypt 31 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:31

BLOWFISH Encrypt and decrypt 32 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:32

BLOWFISH Encrypt and decrypt 32 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:33

BLOWFISH Encrypt and decrypt 47 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:33:

BLOWFISH Encrypt and decrypt 48 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:33:

BLOWFISH Encrypt and decrypt 49 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:42

BLOWFISH Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:0:0:

BLOWFISH Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:1:0:

BLOWFISH Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:0:1:

BLOWFISH Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:16:0:

BLOWFISH Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:0:16:

BLOWFISH Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:1:15:

BLOWFISH Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:15:1:

BLOWFISH Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
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enc_dec_buf multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:15:7:

BLOWFISH Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
cenc_dec_buf multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:16:6:

BLOWFISH Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
cenc_dec_buf multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:17:6:

BLOWFISH Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
cenc_dec_buf multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:16:16:

-----BEGIN X509 CRL-----
MIIBqzCBIDANBgkqhkiG9w0BAQ0FADA7MQswCQYDVQQGEwJOTDERMA8GA1UEChMI
UG9sYXJTU0wxGTAXBgNVBAMTEFBvbGFyU1NMIFRlc3QgQ0ExMTA5MDsGA1UEA
wMBM2MDEyMjIzMTUyNTQwNgYDVQQKEwNITDQgSWV4aXQgQ2FsbGJlZ29yZCg
-----BEGIN X509 CRL-----
Cipher Selftest
depends_on:POLARSSL_SELF_TEST
cipher_selftest:

Decrypt empty buffer
dec_empty_buf:

NULL Encrypt and decrypt 0 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
cenc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:0

NULL Encrypt and decrypt 1 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
cenc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:1

NULL Encrypt and decrypt 2 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
cenc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:2

NULL Encrypt and decrypt 7 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
cenc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:7

NULL Encrypt and decrypt 8 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:8

NULL Encrypt and decrypt 9 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:9

NULL Encrypt and decrypt 15 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:15

NULL Encrypt and decrypt 16 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:16

NULL Encrypt and decrypt 31 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:31

NULL Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:32

NULL Encrypt and decrypt 33 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:33

NULL Encrypt and decrypt 47 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:47

NULL Encrypt and decrypt 48 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:48

NULL Encrypt and decrypt 49 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:49

NULL Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf multipart:POLARSSL_CIPHER_NULL:0:1:0:

NULL Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf multipart:POLARSSL_CIPHER_NULL:0:0:1:

NULL Encrypt and decrypt 16 bytes in multiple parts 1
NULL Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf_multipart:POLARSSL_CIPHER_NULL:0:0:16:0:

NULL Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf_multipart:POLARSSL_CIPHER_NULL:0:1:15:0:

NULL Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf_multipart:POLARSSL_CIPHER_NULL:0:15:1:0:

NULL Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf_multipart:POLARSSL_CIPHER_NULL:0:15:7:0:

NULL Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf_multipart:POLARSSL_CIPHER_NULL:0:16:6:0:

NULL Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf_multipart:POLARSSL_CIPHER_NULL:0:17:6:0:

NULL Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf_multipart:POLARSSL_CIPHER_NULL:0:16:16:0:
Cipher Selftest
depends_on:POLARSSL_SELF_TEST
cipher_selftest:

Decrypt empty buffer
dec_empty_buf:

DES Encrypt and decrypt 0 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:0

DES Encrypt and decrypt 1 byte
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:1

DES Encrypt and decrypt 2 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:2
DES Encrypt and decrypt 7 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:7

DES Encrypt and decrypt 8 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:8

DES Encrypt and decrypt 9 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:9

DES Encrypt and decrypt 15 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:15

DES Encrypt and decrypt 16 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:16

DES Encrypt and decrypt 17 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:17

DES Encrypt and decrypt 31 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:31

DES Encrypt and decrypt 32 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:32

DES Encrypt and decrypt 32 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:33

DES Encrypt and decrypt 47 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:47

DES Encrypt and decrypt 48 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DESCBC:DES-CBC:56:48

DES Encrypt and decrypt 49 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:49
DES Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_DES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_DES_CBC:56:0:0:

DES Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_DES_CBC:56:1:0:

DES Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_DES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_DES_CBC:56:0:1:

DES Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_DES_CBC:56:16:0:

DES Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_DES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_DES_CBC:56:0:16:

DES Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_DES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_DES_CBC:56:1:15:

DES Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_DES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_DES_CBC:56:15:1:

DES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_DES_CBC:56:15:7:

DES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_DES_CBC:56:16:6:

DES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_DES_CBC:56:17:6:

DES Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_DES_CBC:56:16:16:

DES Encrypt and decrypt 0 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:0
DES3 Encrypt and decrypt 1 byte
depends_on:POLARSSL_DES_C
c_enc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:1

DES3 Encrypt and decrypt 2 bytes
depends_on:POLARSSL_DES_C
c_enc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:2

DES3 Encrypt and decrypt 7 bytes
depends_on:POLARSSL_DES_C
c_enc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:7

DES3 Encrypt and decrypt 8 bytes
depends_on:POLARSSL_DES_C
c_enc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:8

DES3 Encrypt and decrypt 9 bytes
depends_on:POLARSSL_DES_C
c_enc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:9

DES3 Encrypt and decrypt 15 bytes
depends_on:POLARSSL_DES_C
c_enc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:15

DES3 Encrypt and decrypt 16 bytes
depends_on:POLARSSL_DES_C
c_enc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:16

DES3 Encrypt and decrypt 17 bytes
depends_on:POLARSSL_DES_C
c_enc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:17

DES3 Encrypt and decrypt 31 bytes
depends_on:POLARSSL_DES_C
c_enc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:31

DES3 Encrypt and decrypt 32 bytes
depends_on:POLARSSL_DES_C
c_enc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:32

DES3 Encrypt and decrypt 32 bytes
depends_on:POLARSSL_DES_C
c_enc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:33

DES3 Encrypt and decrypt 47 bytes
depends_on:POLARSSL_DES_C
c_enc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:47
DES3 Encrypt and decrypt 48 bytes
depends_on:POLARSSL_DES_C
encc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:48

DES3 Encrypt and decrypt 49 bytes
depends_on:POLARSSL_DES_C
encc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:49

DES3 Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_DES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_DES_EDE_CBC:112:0:0:

DES3 Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_DES_EDE_CBC:112:1:0:

DES3 Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_DES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_DES_EDE_CBC:112:0:1:

DES3 Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_DES_EDE_CBC:112:16:0:

DES3 Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_DES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_DES_EDE_CBC:112:0:16:

DES3 Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_DES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_DES_EDE_CBC:112:1:15:

DES3 Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_DES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_DES_EDE_CBC:112:15:1:

DES3 Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_DES_EDE_CBC:112:15:7:

DES3 Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_DES_EDE_CBC:112:16:6:

DES3 Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
encc_dec_buf_multipart:POLARSSL_CIPHER_DES_EDE_CBC:112:17:6:
DES3 Encrypt and decrypt 32 bytes in multiple parts
depends_on:POLARSSL_DES_C
enc_dec_buf multipart:POLARSSL_CIPHER_DES_EDE_CBC:112:16:16:

DES3 Encrypt and decrypt 0 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:0

DES3 Encrypt and decrypt 1 byte
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:1

DES3 Encrypt and decrypt 2 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:2

DES3 Encrypt and decrypt 7 bytes
depends_on:POLARSSL_DES_C

DES3 Encrypt and decrypt 8 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:8

DES3 Encrypt and decrypt 9 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:9

DES3 Encrypt and decrypt 15 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:15

DES3 Encrypt and decrypt 16 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:16

DES3 Encrypt and decrypt 17 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:17

DES3 Encrypt and decrypt 31 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:31

DES3 Encrypt and decrypt 32 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:32
DES3 Encrypt and decrypt 32 bytes
depends_on:POLARSSL_DES_C
cenc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:33

DES3 Encrypt and decrypt 47 bytes
depends_on:POLARSSL_DES_C
cenc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:47

DES3 Encrypt and decrypt 48 bytes
depends_on:POLARSSL_DES_C

DES3 Encrypt and decrypt 49 bytes
depends_on:POLARSSL_DES_C
cenc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:49

DES3 Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_DES_C
cenc_dec_buf multipart:POLARSSL_CIPHER_DES_EDE3_CBC:168:0:0:

DES3 Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
cenc_dec_buf multipart:POLARSSL_CIPHER_DES_EDE3_CBC:168:1:0:

DES3 Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_DES_C
cenc_dec_buf multipart:POLARSSL_CIPHER_DES_EDE3_CBC:168:0:1:

DES3 Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
cenc_dec_buf multipart:POLARSSL_CIPHER_DES_EDE3_CBC:168:16:0:

DES3 Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_DES_C
cenc_dec_buf multipart:POLARSSL_CIPHER_DES_EDE3_CBC:168:0:16:

DES3 Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_DES_C
cenc_dec_buf multipart:POLARSSL_CIPHER_DES_EDE3_CBC:168:1:15:

DES3 Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_DES_C
cenc_dec_buf multipart:POLARSSL_CIPHER_DES_EDE3_CBC:168:15:1:

DES3 Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
cenc_dec_buf multipart:POLARSSL_CIPHER_DES_EDE3_CBC:168:15:7:
DES3 Encrypt and decrypt 22 bytes in multiple parts 1
depends_on: POLARSSL_DES_C
c_enc_dec_buf multipart: POLARSSL_CIPHER_DES_EDE3_CBC: 168: 16: 6:

DES3 Encrypt and decrypt 22 bytes in multiple parts 1
depends_on: POLARSSL_DES_C
c_enc_dec_buf multipart: POLARSSL_CIPHER_DES_EDE3_CBC: 168: 17: 6:

DES3 Encrypt and decrypt 32 bytes in multiple parts 1
depends_on: POLARSSL_DES_C
c_enc_dec_buf multipart: POLARSSL_CIPHER_DES_EDE3_CBC: 168: 16: 16:

md2 Test vector RFC1319 #1
depends_on: POLARSSL_MD2_C
md2_text: "": "8350e5a3e24c153df2275c9f80692773"

md2 Test vector RFC1319 #2
depends_on: POLARSSL_MD2_C
md2_text: "a": "32ec01ec4a6dac72c0ab96fb34c0b5d1"

md2 Test vector RFC1319 #3
depends_on: POLARSSL_MD2_C
md2_text: "abc": "da853b0d3f88d99b30283a69ef6ded6bb"

md2 Test vector RFC1319 #4
depends_on: POLARSSL_MD2_C
md2_text: "message digest": "ab4f496bfb2a530b219ff33031fe06b0"

md2 Test vector RFC1319 #5
depends_on: POLARSSL_MD2_C
md2_text: "abcdefghijklmnopqrstuvwxyz": "4e8ddff3650292ab5a4108c3aa47940b"

md2 Test vector RFC1319 #6
depends_on: POLARSSL_MD2_C
md2_text: "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789": "da33def2a42df13975352846c30338cd"

md2 Test vector RFC1319 #7
depends_on: POLARSSL_MD2_C
md2_text: "1234567890123456789012345678901234567890123456789012345678901234567890": "d5976f79d83d3a0dc9806c3c66f3ef8"

md4 Test vector RFC1320 #1
depends_on: POLARSSL_MD4_C
md4_text: "": "31d6cfe0d16a931b73e59d7e0e089c0"

md4 Test vector RFC1320 #2
depends_on: POLARSSL_MD4_C
md4_test:"a":"bde52cb31de33e46245e05fbdbd6fb24"

md4 Test vector RFC1320 #3
depends_on:POLARSSL_MD4_C
md4_text:"abc":"a448017aaaf21d8525fc10ae87aa6729d"

md4 Test vector RFC1320 #4
depends_on:POLARSSL_MD4_C
md4_text:"message digest":"d9130a8164549fe818874806e1c7014b"

md4 Test vector RFC1320 #5
depends_on:POLARSSL_MD4_C
md4_text:"abcdefhijklmnopqrstuvwxyz":"d79e1c308aa5bbcddeee8ed63df412da9"

md4 Test vector RFC1320 #6
depends_on:POLARSSL_MD4_C
md4_text:"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789":"043f8582f241db351ce627e153e7f0e4"

md4 Test vector RFC1320 #7
depends_on:POLARSSL_MD4_C
md4_text:"12345678901234567890123456789012345678901234567890123456789012345678901234567890":"e33b44dde9c38f2199c3e7b164fccc0536"

md5 Test vector RFC1321 #1
depends_on:POLARSSL_MD5_C
md5_text:"":"d41d8cd98f00b204e9800998ecf8427e"

md5 Test vector RFC1321 #2
depends_on:POLARSSL_MD5_C
md5_text:"a":"0cc175b9c0f1b6a831c399e269772661"

md5 Test vector RFC1321 #3
depends_on:POLARSSL_MD5_C
md5_text:"abc":"900150983cd24fb0d6963f7d28e17f72"

md5 Test vector RFC1321 #4
depends_on:POLARSSL_MD5_C
md5_text:"message digest":"f96b697d7cb7938d525a2f31aaf161d0"

md5 Test vector RFC1321 #5
depends_on:POLARSSL_MD5_C
md5_text:"abcdefhijklmnopqrstuvwxyz":"c3fcd3d76192e4007dfb496cca67e13b"

md5 Test vector RFC1321 #6
depends_on:POLARSSL_MD5_C
md5_text:"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789":"d174ab98d277df5a661c2e9f419d9f"
md5 Test vector RFC1321 #7  
depends_on:POLARSSL_MD5_C  
md5_text:"123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890":"57edf4a22be3c955ac49da2e2107b67a"

HMAC-MD2 Hash File OpenSSL test #1  
depends_on:POLARSSL_MD2_C  
md2_hmac:16:"6161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"d573258f2f94f5ddf35efd166c85af9e"

HMAC-MD2 Hash File OpenSSL test #2  
depends_on:POLARSSL_MD2_C  
md2_hmac:16:"6161616161616161616161616161":"270fcf11f27c27448457d7049a7ed0b084a3e554e0b2ac5f806982213f0ad516402e4c869e4ff2171e18e3489b9a31252d2c3056eb616296f9b6a97ef688eaeabcdcb0b6dde47775004096a241efc0a90d19b34e898c7340cde940f8bdd46e352f34bca131d4d67a7c2dbc8d0d68b67f06152a128168e1c341c37e0a66c5018999b7059bccc300beed2c19dd1152d2fe062853293bf3c8b5":"54ab68503f7d1b5c7741340df2722a9"

HMAC-MD2 Hash File OpenSSL test #3  
depends_on:POLARSSL_MD2_C  
md2_hmac:16:"6161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"d850e5f554558cf0f79a0612e1d0365"

HMAC-MD4 Hash File OpenSSL test #1  
depends_on:POLARSSL_MD4_C  
md4_hmac:16:"6161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"eabd0fbefb82fb0063a25af6d7bb0dce0f"

HMAC-MD4 Hash File OpenSSL test #2  
depends_on:POLARSSL_MD4_C  
md4_hmac:16:"6161616161616161616161616161":"270fcf11f27c27448457d7049a7ed0b084a3e554e0b2ac5f806982213f0ad516402e4c869e4ff2171e18e3489b9a31252d2c3056eb616296f9b6a97ef688eaeabcdcb0b6dde47775004096a241efc0a90d19b34e898c7340cde940f8bdd46e352f34bca131d4d67a7c2dbc8d0d68b67f06152a128168e1c341c37e0a66c5018999b7059bccc300beed2c19dd1152d2fe062853293bf3c8b5":"cec3c5e4217b7b83aa89cacf78da6d9c"

HMAC-MD4 Hash File OpenSSL test #3  
depends_on:POLARSSL_MD4_C  
md4_hmac:16:"6161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"ad5f0a04116109b3975b57f9cc9b6df4b"

HMAC-MD5 Hash File OpenSSL test #1  
depends_on:POLARSSL_MD5_C  
md5_hmac:16:"6161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"42552882f00bd4633e811351a84b284"
HMAC-MD5 Hash File OpenSSL test #2
depends_on:POLARSSL_MD5_C
md5_hmac:16:"61616161616161616161616161616161":"270fcf11f27c27448457d7049a7edb084a3e554e0b2acf58
06982213f0ad516402e4c869c4ff2171e18e3489baa3125d2c3056ebb616296f9b6aa97ef68eeabcdc0b6dde477750040
96a241efcf0a90d19b34e898cc7340cdc940f8bdd46e23e352f34bca131d4d67a7c2ddb8d0d68b67f06152a128168e1c3
41c37e0a66c5018999b7059bcc300beed2c19dd1152d2fe062853293b8f3c8b5":"a16a842891786d01fe50ba7731db74
64"
HMAC-MD5 Hash File OpenSSL test #3
depends_on:POLARSSL_MD5_C
md5_hmac:16:"61616161616161616161616161616161616161616161616161616161616161616161616161616161
616161616161616161616161616161616161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"e97f
623936f98a7f741c4bd0612fecc2"
HMAC-MD5 Test Vector RFC2202 #1
depends_on:POLARSSL_MD5_C
md5_hmac:16:"0b0b0b0b0b0b0b0b0b0b0b0b0b0b0b0b":"4869205468657265":"9294727a3638bb1c13f48ef8158bf
c9d"
HMAC-MD5 Test Vector RFC2202 #2
depends_on:POLARSSL_MD5_C
md5_hmac:16:"4a656665":"7768617420646f2079612077616e7420666f72206e6f7468696e673f":"750c783e6ab0b5
03eaa86e310a5db738"
HMAC-MD5 Test Vector RFC2202 #3
depends_on:POLARSSL_MD5_C
md5_hmac:16:"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa":"dddddddddddddddddddddddddddddddddddddddddddddddddd
dddddddddddddddddddddddddddddddddddddddddddddddddd":"56be34521d144c88dbb8c733f0e8b3f6"
HMAC-MD5 Test Vector RFC2202 #4
depends_on:POLARSSL_MD5_C
md5_hmac:16:"0102030405060708090a0b0c0d0e0f10111213141516171819":"cdcdcdcdcdcdcdcdcdcdcdcdcdcdcdc
dcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcd":"697eaf0aca3a3aea3a75164746ff
aa79"
HMAC-MD5 Test Vector RFC2202 #5
depends_on:POLARSSL_MD5_C
md5_hmac:12:"0c0c0c0c0c0c0c0c0c0c0c0c0c0c0c0c":"546573742057697468205472756e636174696f6e":"56461ef
2342edc00f9bab995"
HMAC-MD5 Test Vector RFC2202 #6
depends_on:POLARSSL_MD5_C
md5_hmac:16:"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa":"54657374205573696e67204c61726
76572205468616e20426c6f636b2d53697a65204b6579202d2048617368204b6579204669727374":"6b1ab7fe4bd7b
f8f0b62e6ce61b9d0cd"

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HMAC-MD5 Test Vector RFC2202 #7
depends_on:POLARSSL_MD5_C
md5_hmac:16:"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa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option(INSTALL_POLARSSL_HEADERS "Install PolarSSL headers." ON)

if(INSTALL_POLARSSL_HEADERS)

file(GLOB headers "polarssl/*.h")

install(FILES ${headers}
    DESTINATION include/polarssl
    PERMISSIONS OWNER_READ OWNER_WRITE GROUP_READ WORLD_READ)
endif(INSTALL_POLARSSL_HEADERS)

AES-128-ECB Encrypt NIST KAT #1
aes_encrypt_ecb:"00000000000000000000000000000000":"f34481ec3cc627bacd3f80ef273e6":"0336763e966d92595a567ce9ce537f5e":0

AES-128-ECB Encrypt NIST KAT #2
aes_encrypt_ecb:"00000000000000000000000000000000":"9798c4640bad75c7c3227db910174e72":"a9a1631bf4996954ebc093975b234589":0

AES-128-ECB Encrypt NIST KAT #3
aes_encrypt_ecb:"00000000000000000000000000000000":"96ab5c2ff612d9faae8c31f30c42168":"ff4f8391a6a499ca5b25d23bed44a597":0

AES-128-ECB Encrypt NIST KAT #4
aes_encrypt_ecb:"e00000000000000000000000000000000":0

AES-128-ECB Encrypt NIST KAT #5
aes_encrypt_ecb:"f00000000000000000000000000000000":0

AES-128-ECB Encrypt NIST KAT #6
aes_encrypt_ecb:"f80000000000000000000000000000000":0

AES-128-ECB Encrypt NIST KAT #7
aes_encrypt_ecb:"fffffffffffffff00000000000000000000000000000000":0

AES-128-ECB Encrypt NIST KAT #8
aes_encrypt_ecb:"fffffffffffffff80000000000000000000000000000000":0

AES-128-ECB Encrypt NIST KAT #9
aes_encrypt_ecb:"fffffffffffffff00000000000000000000000000000000":0

AES-128-ECB Encrypt NIST KAT #10
aes_encrypt_ecb:"fffffffffffffff00000000000000000000000000000000":0
aes_encrypt_ecb:"ffffffffffffffffffffffffffffc000":"00000000000000000000000000000000":"70c46bb30692be657f7e
aa93ebad9897":0
AES-128-ECB Encrypt NIST KAT #11
aes_encrypt_ecb:"ffffffffffffffffffffffffffffe000":"00000000000000000000000000000000":"323994cfb9da285a5d96
42e1759b224a":0
AES-128-ECB Encrypt NIST KAT #12
aes_encrypt_ecb:"fffffffffffffffffffffffffffff000":"00000000000000000000000000000000":"1dbf57877b7b17385c85
d0b54851e371":0
AES-128-ECB Encrypt NIST KAT #13
aes_encrypt_ecb:"00000000000000000000000000000000":"ffffffffffffffc00000000000000000":"3a4d354f02bb5a5
e47d39666867f246a":0
AES-128-ECB Encrypt NIST KAT #14
aes_encrypt_ecb:"00000000000000000000000000000000":"ffffffffffffffe00000000000000000":"d451b8d6e1e1a0e
bb155fbbf6e7b7dc3":0
AES-128-ECB Encrypt NIST KAT #15
aes_encrypt_ecb:"00000000000000000000000000000000":"fffffffffffffff00000000000000000":"6898d4f42fa7ba6a
10ac05e87b9f2080":0
AES-128-ECB Encrypt NIST KAT #16
aes_encrypt_ecb:"00000000000000000000000000000000":"ffffffffffffffffffffffffe0000000":"082eb8be35f442fb526
68e16a591d1d6":0
AES-128-ECB Encrypt NIST KAT #17
aes_encrypt_ecb:"00000000000000000000000000000000":"fffffffffffffffffffffffff0000000":"e656f9ecf5fe27ec3e4a
73d00c282fb3":0
AES-128-ECB Encrypt NIST KAT #18
aes_encrypt_ecb:"00000000000000000000000000000000":"fffffffffffffffffffffffff8000000":"2ca8209d63274cd9a29
bb74bcd77683a":0
AES-128-ECB Decrypt NIST KAT #1
aes_decrypt_ecb:"00000000000000000000000000000000":"db4f1aa530967d6732ce4715eb0ee24b":"ff0000000000
00000000000000000000":0
AES-128-ECB Decrypt NIST KAT #2
aes_decrypt_ecb:"00000000000000000000000000000000":"a81738252621dd180a34f3455b4baa2f":"ff8000000000
00000000000000000000":0
AES-128-ECB Decrypt NIST KAT #3
aes_decrypt_ecb:"00000000000000000000000000000000":"77e2b508db7fd89234caf7939ee5621a":"ffc000000000
00000000000000000000":0
AES-128-ECB Decrypt NIST KAT #4

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AES-128-ECB Decrypt NIST KAT #5
aes_decrypt_ecb:00000000000000000000000000000000:92beedab1895a94faa69b632e5cc47ce:cb9fceeec81286ca3e989bd979b0cb284:0

AES-128-ECB Decrypt NIST KAT #6
aes_decrypt_ecb:00000000000000000000000000000000:459264f479f6a78bacb89c15ed3d601:b26aeb1874e47ca8358f22378f09144:0

AES-128-ECB Decrypt NIST KAT #7
aes_decrypt_ecb:b69418a85332240d82492353956ae0c:a303d940ded8f0baff6f75414cac5243:00000000000000000000000000000000:0

AES-128-ECB Decrypt NIST KAT #8
aes_decrypt_ecb:71b5c08a1993e1362e4d0ce9b22b7d5:c2dadb117f8a3ecabfb11d1d12194d9d0:00000000000000000000000000000000:0

AES-128-ECB Decrypt NIST KAT #9
aes_decrypt_ecb:e234cdca2606b81f29408df66da21206:fff60a4740086b3b9c56195b98d91a7b:00000000000000000000000000000000:0

AES-128-ECB Decrypt NIST KAT #10
aes_decrypt_ecb:fffffffffffffff0000000000000000:84be19e053635f092665e7bae85b42d:00000000000000000000000000000000:0

AES-128-ECB Decrypt NIST KAT #11
aes_decrypt_ecb:fffffffffffffff8000000000000000:32cd652842926a4aa6137bb2be2b5e:00000000000000000000000000000000:0

AES-192-ECB Encrypt NIST KAT #1
aes_encrypt_ecb:000000000000000000000000000000000000000000000000:fffffffffffffff8000000000000000:156f07767a85a4312321f455968338a01:0

AES-192-ECB Encrypt NIST KAT #2
aes_encrypt_ecb:000000000000000000000000000000000000000000000000:fffffffffffffff0000000000000000:156ee9eb4f259ca76897d2cd65a12e2:0

AES-192-ECB Encrypt NIST KAT #3
aes_encrypt_ecb:000000000000000000000000000000000000000000000000:fffffffffffffff0000000000000000:156dd3a6dcdccf1315e2b3024eb70fd8:0

AES-192-ECB Encrypt NIST KAT #4
aes_encrypt_ecb:000000000000000000000000000000000000000000000000:51719783d385a535bd75a6c65071ce1:4f354592ff7c8847d2d0870ca9481b7c:0

AES-192-ECB Encrypt NIST KAT #5
aes_decrypt_ecb: "b0ab0a6a818baef2d11fa33ae947284fb7d748cfb75e570": "d2eaf86f63b109b91f5db3a3f7e13": "00000000000000000000000000000000":0

AES-192-ECB Decrypt NIST KAT #6
aes_decrypt_ecb: "ee053aa011c8b428edc5636313c54d6a03cac01c71579d6": "9b9fdd1c5975655f539998b306a324af": "00000000000000000000000000000000":0

AES-192-ECB Decrypt NIST KAT #7
aes_decrypt_ecb: "0000000000000000000000000000000000000000000000000000000000000000": "275cfc0413d8ceeb70513c3859b1d0f72": "1b077a6af4b7f98229de786d7516b639":0

AES-192-ECB Decrypt NIST KAT #8
aes_decrypt_ecb: "0000000000000000000000000000000000000000000000000000000000000000": "e9b8135ff1b5adc413dfd053b21bd96d": "9e2d8842e5f48f5764820539a239a1":0

AES-192-ECB Decrypt NIST KAT #9
aes_decrypt_ecb: "0000000000000000000000000000000000000000000000000000000000000000": "4a3650c3371ce2eb35e389a171427440": "bff525109f518ecc6a0af4205444bb":0

AES-192-ECB Decrypt NIST KAT #10
aes_decrypt_ecb: "0000000000000000000000000000000000000000000000000000000000000000": "b2099795e88cc158fd75ea133d7e7f
be": "00000000000000000000000000000000":0

AES-256-ECB Encrypt NIST KAT #1
aes_encrypt_ecb: "c1c1c358b449909a19436cfbb3f852e8bce5ed12ac7058325f56e6099aab1a1c": "00000000000000000000000000000000":0

AES-256-ECB Encrypt NIST KAT #2
aes_encrypt_ecb: "9b84ca754feee8d706f46e2d98c0bf4a45f5b00d791c2dfeb191b5ed8e420fd627": "00000000000000000000000000000000":0

AES-256-ECB Encrypt NIST KAT #3
aes_encrypt_ecb: "b43d084a4747ac8609baaad24f112918b9f68fc1653f1269222f123981ded7a92f": "00000000000000000000000000000000":0

AES-256-ECB Encrypt NIST KAT #4
aes_encrypt_ecb: "0000000000000000000000000000000000000000000000000000000000000000": "0b24af36193ce466f52825d7b4749c98": "a9ff75bd7cf613d3731c77c3b6d0e04":0

AES-256-ECB Encrypt NIST KAT #5
| AES-256-ECB Encrypt NIST KAT #6 |
| aes_encrypt_ecb: "0000000000000000000000000000000000000000000000000000000000000000": "761c1fe41a18cf20d241656111d90f1": "623a52fcea5d443e48d9181ab32c7421": |
| AES-256-ECB Encrypt NIST KAT #7 |
| aes_encrypt_ecb: "0000000000000000000000000000000000000000000000000000000000000000": "8a560769d605868ad80d819bdba03771": "38f2c7ae10612495d27ca190d67d8b4": |
| AES-256-ECB Encrypt NIST KAT #8 |
| aes_encrypt_ecb: "0000000000000000000000000000000000000000000000000000000000000000": "ffffff800000000000000000000000000000000000": "36aff0ef7bf3280772cf4cae80a0d2b2": |
| AES-256-ECB Encrypt NIST KAT #9 |
| aes_encrypt_ecb: "0000000000000000000000000000000000000000000000000000000000000000": "ffffffc0000000000000000000000000000000000": "1f8eeda0f62a1406d58c333a3375a1d3e6b1d454438f95a6": |
| AES-256-ECB Encrypt NIST KAT #10 |
| aes_encrypt_ecb: "fffffffffffffffffffffffffffffffffffffffffffffff00000000000000000000000000000000": "00000000000000000000000000000000": "45d089c36d5c5a4ec6889e3b0de10dd5": |
| AES-256-ECB Encrypt NIST KAT #11 |
| aes_encrypt_ecb: "fffffffffffffffffffffffffffffffffffffffffffffff80000000000000000000000000000000": "00000000000000000000000000000000": "b4da5df4becb5462e03a0ed00d295629": |
| AES-256-ECB Encrypt NIST KAT #12 |
| aes_encrypt_ecb: "fffffffffffffffffffffffffffffffffffffffffffffff00000000000000000000000000000000": "00000000000000000000000000000000": "defe129136ec4a4b7a0f38935cc34b2": |
| AES-256-ECB Decrypt NIST KAT #1 |
| aes_decrypt_ecb: "fffffffffffffffffffffffffffffffffffffffffffffff00000000000000000000000000000000": "edf61ae362e882de0167474a7a77f3a": "00000000000000000000000000000000": |
| AES-256-ECB Decrypt NIST KAT #2 |
| aes_decrypt_ecb: "fffffffffffffffffffffffffffffffffffffffffffffff80000000000000000000000000000000": "6168b00ba7859e0970ecfd757eefecf7c": "00000000000000000000000000000000": |
| AES-256-ECB Decrypt NIST KAT #3 |
| aes_decrypt_ecb: "fffffffffffffffffffffffffffffffffffffffffffffff00000000000000000000000000000000": "d1415447866230d28b18a188a4cfd02": "00000000000000000000000000000000": |
| AES-256-ECB Decrypt NIST KAT #4 |
| aes_decrypt_ecb: "fffffffffffffffffffffffffffffffffffffffffffffff00000000000000000000000000000000": "a3944b95ca852043584e02151926aa8": "00000000000000000000000000000000": |
| AES-256-ECB Decrypt NIST KAT #5 |
aes_decrypt_ecb:"797f8b3d176dae5b7e34a2d539c4ef367a16f8635f6264737591c5e07bf57a3e":"a74289fe73a4c123ca189ea1e1b49ad5":"0000000000000000000000000000000000"

AES-256-ECB Decrypt NIST KAT #6
aes_decrypt_ecb:"6838d40caf927749c13f0329d331f448e202c73ef52c5f73a37ca635d4c47707":"b91d4ea4488644b56cf0812fa7fc5fc":"0000000000000000000000000000000000"

AES-256-ECB Decrypt NIST KAT #7
aes_decrypt_ecb:"0000000000000000000000000000000000000000000000000000000000000000":"623a52fcea5d43e48d9181ab32c7421":"761c1fe41a18acf20d2f2d421656011d90f1":0

AES-256-ECB Decrypt NIST KAT #8
aes_decrypt_ecb:"0000000000000000000000000000000000000000000000000000000000000000":"38f2c7ae10612415d27ca190d27da8b4":"8a560769d605868ad80d819bdba03771":0

AES-256-ECB Decrypt NIST KAT #9
aes_decrypt_ecb:"0000000000000000000000000000000000000000000000000000000000000000":"1be704f1bce135ceb810341b216d7abe":"91f6e2d15a97816060bee1feaa49afe":0

AES-256-ECB Decrypt NIST KAT #10
aes_decrypt_ecb:"0000000000000000000000000000000000000000000000000000000000000000":"ddec6bf790c15760d89aebeb9a75fd4e":"8000000000000000000000000000000000"

AES-256-ECB Decrypt NIST KAT #11
aes_decrypt_ecb:"0000000000000000000000000000000000000000000000000000000000000000":"0a6bdc6d4c1e6280301fd8e979ddbe061":"c0000000000000000000000000000000000"

AES-256-ECB Decrypt NIST KAT #12
aes_decrypt_ecb:"0000000000000000000000000000000000000000000000000000000000000000":"9b80eebf7ebe2d2b16247aa0efc72f5d":"e0000000000000000000000000000000000000000000000000000000000000000"

GCM NIST Validation (AES-256,128,0,0,128) #0
gcm_encrypt_and_tag:"fb8094dd2eddb3d8004bb79134023ca2be4de9b668a9e4608abdf2130e8bebc8":"":"":0x49114e13b591c2f293da96b6882b5e":"":0x80883fc2925434a5edfcefd5b123d520

GCM NIST Validation (AES-256,128,0,0,128) #1
gcm_encrypt_and_tag:"72531f4cb3f6aad29cef174b7e4f43ceef11b761ef75e1955cb64c1306795f1":"":0x27d1ed08a2a23d79fc49ad892a2a0ea":"":0x128:d5d6d37ba35ef2ad88e9725f938d3d2d

GCM NIST Validation (AES-256,128,0,0,128) #2
gcm_encrypt_and_tag:"a4766584e0e885e11bb1327e5335796de0831a40f74a55cecc178704d15bf10":"":0xcece0dea024ff47851af0500d146cbfe":"":0x128:1abe16ceab56bd0fb1ab9098d528771

GCM NIST Validation (AES-256,128,0,0,128) #3
gcm_encrypt_and_tag:"ce7f2207f83a952451e714ba3807dd3ed67c2739a628980411aa68366b1f2f":"":0x652fd95ace88db397020687135a5d1":"":0x128:985227b14de16722987a3d34976442

GCM NIST Validation (AES-256,128,0,0,120) #0
gcm_encrypt_and_tag:"ce7f2207f83a952451e714ba3807dd3ed67c2739a628980411aa68366b1f2f":"":0x652fd95ace88db397020687135a5d1":"":0x128:0855f8fa4ec6a1206173509d50d40b29dfbf8fa9aa528254b189cd72e6ebc1c1f":"":0x1ad1507e6
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GCM NIST Validation (AES-256,128,0,0,64) #2
gcm_encrypt_and_tag: "6c6a30b06b779a8de7a19e5279eac94bf29f76f8b0ef8ef8f11c4f8eb04a0d": "7373befe2c8007f42ee4f7be1086842f": "6e": "eb86200b7c472a8": 0

GCM NIST Validation (AES-256,128,0,0,32) #0
gcm_encrypt_and_tag: "acea781a71df2c9840aef1c10e00e2bac7e92216388416a2f36119a0745d883": "6d46a39fbb5a6117e9ad7ee72b6c0f": "32": "fddf5f17b": 0

GCM NIST Validation (AES-256,128,0,0,32) #1
gcm_encrypt_and_tag: "b301036d4b2b28b8a4502925986861eba2b67c24c5b0c79c63fd621959d96b7506": "bb6f389e5aed51590e3d0f2f5419e44d": "32": "47f3a906": 0

GCM NIST Validation (AES-256,128,0,0,32) #2
gcm_encrypt_and_tag: "895762d2aad554c89822c7df0f0539ebab90f8af3d3433c1e0564d6e68795": "aedbd482a401a7c872d4755077c8dd26e": "32": "506fa18d": 0

GCM NIST Validation (AES-256,128,0,1024,128) #0
gcm_encrypt_and_tag: "43e9e209da3e1971d986a45b92f2f0a0d2d155183730d2d17ed8e2284ec308e3": "78b6f65df8990b04d2a25678d7086d": "9d8c6354e4797c581b9b1bd0d405b27f0e5399d901655d2d1a8a1489df804228753d77272b6d6ed19d47a6abdb281ea9591d4bac19be223205f6d65c95e5aa4113314cbfd4221546981f61b40415d81cc37161e5c0258a567429b884c27d6e59f3ae458ef1f552ac742a07defa3569aeb959900b4a4c43f9d52f8119ff1111d": "128": "f15dd9f38bf52c92797adabaf1420de8": 0

GCM NIST Validation (AES-256,128,0,1024,128) #1
gcm_encrypt_and_tag: "1b2527f50fb23a16ff8c86d4215034fdff4b6d1506ca3c1ff0b15653e33a": "b155f8a18bc0327789ef831005119": "ed8d14a4df6e362dbf0a0db569e803278e8225f883d75d237a4abcd775a47980603e5c00a1b5b59460c85e57a749bf496f66aca96eda04aad944a7d3d47adc88326ed30a34d8799dd02bf8b8182f9e2deefaee1c306b897539fa9075bda03ba07bf4ff711ce732ef3c4bebac0f18c85a0652d34524ceb1a4747ab872ed1c24d8fc": "128": "c5fe27ca90e5b83b21cc391ee7f1ff796": 0

GCM NIST Validation (AES-256,128,0,1024,128) #2
gcm_encrypt_and_tag: "8e8888721514fd0df1b67513cb5b6bd29a67a9ce525e3e697a47450f02053161": "9f6bd4a49e3e4f3f2f54a7c2c5b4790b": "867d50923967535ce6e00395930083523c22f137c6bc8817764f5623cd60b555572404e54f2f7e083e3f2ba9a4593a1f170a73d6ee6e61b77def51f3b1d876973a8d50d0aaad9e51e1eb4d4aa25f13c4f3e525355c573eae759e848c6131cc868b4c81b2b4c04d03e3c1eb27a7f4f5f48834f5eaf26c7f3084751": "128": "ea26904330b69262678889789cfdb06baab": 0

GCM NIST Validation (AES-256,128,0,1024,128) #0
gcm_encrypt_and_tag: "d8f820b07e7319ca607c9aa0352070aca83dd7b32a7f30a774f63b0270f44835a": "e89e4484497c72f8865850d891ba7fae": "4234a9d6e1852ed3e5e03eb4a5fe4fe0bfa2b52eb6602ef43a896adc5c52a5384c642b2175691c014e7a6defa9166f5b95c18a2d2de88383dab3d46ace0b305f3f22d30a6b822a11bfb6753362b54b60a24760d753e306b3635f0ef7e1bf8bf130cf3e6062ee2f358a3f7ed0ace7bfbdd6b8460cd76": "120": "b234b2891737237247e7f304f1462b49": 0

GCM NIST Validation (AES-256,128,0,1024,128) #1
gcm_encrypt_and_tag: "b49b04a54a08d28b077ea54c188fa53e916723e91453b47f88e399046b9b4dce": "6276c577
GCM NIST Validation (AES-256,128,0,1024,96) #0
gcm_encrypt_and_tag:"d3981f0aa1ed8cb3e69d9bd0b7b0e529ee6089f2d226c542885b1bfbf552768e91";"":7331f911bd1a6c72c19dd36a2a9222839406d9c5e6d5415424dc9c006edced847406e5a67127ace96e79bb93f4e339ff612cf514b6f6f6df9da50845035d7535212a2aaeeb0ee512df14357c9a527e4e499389c2d7f717394c913e9a19580e7303767b989e4d619df7885bafe789ef489b08eda223f27da5e177cd704c638f5c88f11feccf1c1ab4f4adbedc9d1d8ba":"":96"dbb7e852e692c9a01a5ac0:

GCM NIST Validation (AES-256,128,0,1024,96) #1
gcm_encrypt_and_tag:"84369676979c59ca37b3f607b3c6e088d1da4e76b712188ab4781d8d84950ae47":"":9401dd0998914a645668d0d6518bfe7d7":"a5f40906177417097c19a021dbb457a694e17314131837f695b09ec8eb58a2c28aa4e59275b6266d4a9369a99496b8aeeac64d78ce71d203af413d3458edcb9555fcd7971c28cd6729901e3a2abc6121704bb5edc87a8a6568d056aabb87a2f10205dc8eb0cd1b510915d8e743c2e3a342d6b08db55bbcb8d8507ed1":"":96":dd6d9898352decc4e07375d8":

GCM NIST Validation (AES-256,128,0,1024,96) #2
gcm_encrypt_and_tag:"cc6b846bced6ca747e66e72cd9f76646ac9627b5af1f293f3d36a9d01":"":ac865ff8a6255e501b347a6650150d05":"1658b9f8469af1afda60458c8f8107dbedd1e4bb7a08d2e3e31ebab3d397af51af8af9834dfc8331f1e1fc9a26371377c62db0a83636db2bf0f7fd3e3b6c09a1f0be42e4e7963b22558a82efc63f0713c3ef4b4b4e384aa0c585488bf2317c39e3e3f2e042b42769d6ea30ed98e1592e9f979aebe3eb80e42eb255e":"":96":7ee87ac1d38c558455ff063:

GCM NIST Validation (AES-256,128,0,1024,64) #0
gcm_encrypt_and_tag:"0038cecf1047bbf0d73aaf5e010769b71e8649c2492345dfc923ef9da0254c6af":"":74ce6bb98fc6ced3a59db9c42d3f1d1095":"467f483c71c34047e7f09d66b66664c7b67130ad323470cf24abc590d3994a43f3e8c0c55c19e8a8ca7d366a6d7c5d31cc9612aefdea919d0de2aedef5e5c2a0db2e03dd1d11399720a10abf3b7a9a05eb7c5f3de9b5a4d8331f218e89763e7794b3e63705d414ef3f321660b1b1799f1ff55cbeb129a75e5c0a4ed35e382":"":64":88d9129450b0:

GCM NIST Validation (AES-256,128,0,1024,64) #1
gcm_encrypt_and_tag:"19fc4c22151ee85153063c38b5926e00bbd93bd0f52c22b2abbf6298fed391":"":9547f056c6bf9e72b90f8f527c5b00c":"511b15c25b2a32415971c3b8e475f2d3e71ebc35e774c39067250f449949ec4eb184ebce8683de9418672d9ae2ca60e7f54c107179ff2bba3719d136939d354a43cbb8e9a4735050849019790d1265b99e7b325383b302aae33590949a8761a3bb2aeb1ba798cdde005a3daad05a333894da19269d65116a48f12da5b830":"":64":0462391297b0110e0:

GCM NIST Validation (AES-256,128,0,1024,64) #2
gcm_encrypt_and_tag:"3b5d3b1920b5a105b148153ae1f1027c6d48be99460ea853f5955fed4eb3625":"":5440911ce2eb7e887599bd91690e203485":"aa680d07143ba49a9099d55150f3c3cfc8b9898ee11ad96776de97789cc50fe9772e183c52e837b71e27f181d157799b9d2469e8a22606d6d9a5d9b0bd38b99a346a2ab846d95f2df43700ace7afa6f4aaeeaca01b2463c4e82ce1164d92b309c5879fb4e3ca208d0183a2057ae4ad9f38a7d50643a835511aedd0442b290eb":"":64":033b6eefb228d59b0:

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GCM NIST Validation (AES-256,128,0,1024,32) #0
gcm_encrypt_and_tag: "f6c4ad8e277641577892521f4ba30a4145cb9721955330a2f6a2a3b65acaf2f2bc":"";"3d163cd675061c888226eb136849d":"0f96951c127d6b8c89700e2ad279e9267fb9ca31d222155f8374984bf5660626c832762f
61c16075e01bca96616188f5945b15fc1b82a4e7ee44000a684b3c3840465aebp051280379eefafe9f56e9e94973d15f
0a40e6f564afa4ba116de33cf8ae17854a9e12360a2b8495e2ccceec4635e3705c740769ba37ba6d725f458ce0":"";"f658
c689":0

GCM NIST Validation (AES-256,128,0,1024,32) #1
gcm_encrypt_and_tag: "30cd99fed9706c409e366d47f1f0191f79bdec47a28be78f8990f0d9d4864e685":"";"8c7ce3469
1503bf14c776f88092f4e61":"4bb610c2e2905ab35679f64b53d160a08e68e23b0878fccc1e1d648220f0aeaf4f5b4698d
ed5d23ebafa11be14ec5ed7c7b13d10d11a9458a3861b102b9a49dcdf6a416ecd7b747d7bada0f244cd1ad308756
0db15bfe9b1a56c671fae17a329f104f6c2eab7e6a7459355ca328146d0ccc09a9d8ba3a1dc961947a3876":"";"777
7c224":0

GCM NIST Validation (AES-256,128,1024,0,128) #0
gcm_encrypt_and_tag: "e06d5319210f4107ea7267fae8183c8df74d3b5079b856577717d9eb30742":"2b9179d21c
b8845b18b0e4f42545167ff7899717254d4ae4d3db8593daacceebfe2130a20c2848563eaaa59770cc438ec83d7a7b99e
3588efed285a0fc3c1456dc9a3122b97b2b2f7edc369734759258283c232565e417ec95190db3b2181016b5332f2e40
0bba472486a8ee247419370e5412f743d6b67fca5c3e1aaf0af":"f2b0564705430067629764b049115e12":"";"3fa34
2a76c5d501e6af6ade14aab5a7467620e4ea2287147d4ca2b96d2d2a643915ed5f70ef474ee88a220d1059ef310a9
04ef963f59c4a6151flf3ef478ef27a67d527da8e448b0ef5edceef85f52535f8d0224540378e45d30b81a17f4a
d3688af0fe4df9473c8167f74c3e697f07d7d8e8178efb109f1af2f89a3":"128:18f8ed6e1ee4f8829dbd4955870da0b":0

GCM NIST Validation (AES-256,128,0,1024,0,128) #1
gcm_encrypt_and_tag: "0dfa834e98b6c51ee925d9e9b2e209d3d9c9099d9d57b3f32236895a2a9":"7f4e4f11091
bf519760cf1c7eebcd09850cdada2135549e81c89576801d89a92e4719a7bf6cb25a81b0567d1d452e42de6b9b9397e
b9c03d95e10ba5a3f32d6e4461e014a0041034de46e2f7ebce1c97f8bb3d7fcb9de89b8518be1b43eb59d7902cbe4
299c325c8a7c1ce19174f544bc60828ce1eebad942827ca4a108a":"a101b3b238cfac646964df6a43dea5a7":"";"bc60d2
047fd8171244e95cb8de1f0ff9137e3df7da995f845bl1a4246a4403f61ca896bd635a1570de2b8b7840d3652253c310bf8c
ea3f5597826c65876b0cbecfae221815750be8e4d4222d36a8064a10a56260590ec1ac4e7c100192f30f0d5ab9a
139c72519b136d387da71fefe2564d9fa185b206a205267b4cfa538":"128:04cc1d1db1b7f2e369f96f4e2385b9e":0

GCM NIST Validation (AES-256,128,0,1024,0,128,0,1024,32) #2
gcm_encrypt_and_tag: "ce59144b11ac5f5872ce531b3e492d92203c338b3e4b1d1d987b2ddc14250a8":"bc7aa1b735
a5f465c6fecced8dbd40a33a571e9f0066c63abaf6fd272a673bb2cc00e063248aabb6652e7ebe10934fe4fdcd5c20a4
75936eea2af7bdeaf9f56c6794dc2d59404e655c6e12d8f03e3822a22aee4f62adfe7fe1c9103003e313f13f0a0
5dcee88b213044d417824c4b4eb3c262595d1ce00522047":"f0c5a0567771073f7eaa4645b1a76ce":"";"0843c18eaf8e9897fe60e0faadaf30163c30e0a52f928d4aucf840d2a15b8e0afda13b96060d9b4f2572f96901bc5a1d
991019ca6c6d2d476c2d875a4ab62d31ff8576f825a4775fa7c851aad422b5047a3ad349d5685f85f17965fe64
77439045849a085014d9d442e2ca7e4709ed859f0e0c119d139":"128:43e9e0d1703a05f60edcd5f4c26e79b3i1":0
GCM NIST Validation (AES-256,128,1024,0,96) #2
gcm_encrypt_and_tag:"3e96f1551ca451093601e62f3a0f36e6e4dd5512e86a730f6c564d008ceee0566f0d8062d7860e92ebd2f21dcde80039a04504cd8ee94874b2e6eb083962a774ac9902d9d7ce09afad7c7a7076f3832d9e1951\":"48d3a116213f92fbf8e6bf":0

GCM NIST Validation (AES-256,128,1024,0,64) #0
gcm_encrypt_and_tag:"52ca1a14b4ed57cbfa317fe0d8b7528f4e55151db9fc889325898e3255b1d3477\":"eb9081e19b63c9a45f3a696f5c5e2b07f143e4574394904d41ld67dfac2a873d1d1a16c68b3728202b9dbd0930385956b906920093d edcde5a0a4e98881b5aced55979ae9b80b15696edef7402949f2ed66c3eeaa227ae10241df001c85defa5fd0a0aa11214eca 3774202dd94a27b6f16392329aad269f714474998fd06e15b2a25de38603a39391005a56372f3878895f3e2534a72870f15124616 194cbf9181333e8e639be1250a5ce7e4cebe21b5692e7cfeff7d71432b72e4e8b362b1a4f0f18ff96f675575ca25799ada c0e4dd980e8e33f993051f197f1e405be8b7342578d04c9d45b237a":"016a6f272386c61a":0

GCM NIST Validation (AES-256,128,1024,0,64) #1
gcm_encrypt_and_tag:"a088a07b3e94025523a4a6415029c8e9f11fbd5f275649646c538f5f685a0f":"4ac727b07a4aebe5ca5ad1653d13a56e8e1117371b5c2787cabaad3b9f6de9004878276a108e22afe62c46b57e7b7b83a2ed54 e244c342e924c7bd4b43f78ac8dc7447449f8d06e15b2a25de38603a39391005a56372f3878895f3e2534a72870f15124616 194cbf9181333e8e639be1250a5ce7e4cebe21b5692e7cfeff7d71432b72e4e8b362b1a4f0f18ff96f675575ca25799ada c0e4dd980e8e33f993051f197f1e405be8b7342578d04c9d45b237a":"016a6f272386c61a":0

GCM NIST Validation (AES-256,128,1024,0,64) #2
gcm_encrypt_and_tag:"97e36a3870546ee9c2325a8367e81a77ffaf71f6cadd6909a5bb9eb128":"608280a9dce 6d6d66100af9d006edac2183e32a945b2fd4255c048243f6ee9a15ad0a1ff3eece0b07c9531239b498a5d55dc277551 989bd32ed48a7ac6535b77c7ef0ddadce156999f53e11f3f9804f18e0202502e9d1e31b1709656cc86ae4a1fa02ed69a 608c99a8dae3cb3cbee666841132a99429bce490d9f06b5":"d35192b4d233507b706cd32f8e224577\":"5680a0d58416c667b6eb9ae8f709954a2e246bc819369602418a2ca3d76e41271c1e1ab80a181be2038e32a2db689ed9 db36a2ac87db651058080531e7b1110938cb0961e3857db224b11224961456fb54c0e87808b3006c5b62dec2e0a1 5be7f629b27c10c645af9d8253c094f0cf77508b6d2aadac265b747d":"32:af18c065":0

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GCM NIST Validation (AES-256,128,1024,1024,104) #0
gcm_encrypt_and_tag:"b922422668e598d693e1c4bc239a10028e2d4961c506713a1b0d12e094e0d52c0f7b50366c7f47ab560194c25d1c11a9f50a3d0e7f87d9bb83b8969b4f15f9b76b2909ef90f9f99fa5e387ce8a9196294227a76d3f026e52f61dcd09ed8000f1d82a1c5f3adbe89892e728f9185d55e909f9e4b22a9f34bfa9f4560d520eab0ad9a1e66d59b9d3cc53887811d:0":"7e682b0dd6be6559018386161352:0"}

GCM NIST Validation (AES-256,128,1024,1024,104) #2

gcm_encrypt_and_tag:"d1325edcbb8df0fe449e24555c86e1d6b8e5b6a3c3301a7e92f2491a5044cd9b2b2f5f9a1373f122935685834d55937e0b9982023a772319f584676324847f9a01b8740f0d80e0869000f1411844c5e1a971bce575324b6b51c5e939f81e78bb11d85d324742b4d62e8e13d854b83822171b9c9776f328a5549f43d52b6515a0d9fbbf2d1e2ab53671b7f7eda7e202234f3c71f1229569:8af70f204a0e8974cf2b4f3c645169a959ec2e8513ded3834d443a8a7440f3ace4bef14d3a7e73948113f3e969712ed7986d26b02e8edad237b0db2e81781030c719795c8151d1520c3ef2fca49993b18e28853450738c3a845066776271b626d7a3d73e7d81a1d17257915f73b5a7e13bdc5e52a542a7db67b3c1871ed42a313014f04e723f1a7733a39a63eaa3b93c6dec23b6ca4b2c039429dbec6696393637602c834357e76f65555344d07aae178a105da9024c3d2a1b89895e92d2f72e89518d55e909f9e4b22a9f34bfa9f4560d520eab0ad9a1e66d59b9d3cc53887811d:0":"7e682b0dd6be6559018386161352:0"}
GCM NIST Validation (AES-256,128,1024,1024,104) #2
gcm_encrypt_and_tag:"4c7cc3588436ad9e8776a887f7bd2baee8668f0b78778176f62d1a69519e32a5fcb524"e523b5f41ad69e689fa93e6be998a4e77bab527e24a18f0d1d0a9e0e6257e203574b208297f9b07aa47b6c6dd313232437464c431d247b2741f2f116767681df8e4acc0b5ba99b858c13c233646dcb2b8749a194f08":"65da886762ab3f9c6d590e80"

GCM NIST Validation (AES-256,128,1024,1024,96) #0
gcm_encrypt_and_tag:"9d73aec506e022c0692897f6bc3d4b41e86697fb3777c1956ee27b9c9ab332a":"f02b66f010ed8768a0396e75f31e174b3552a150acdd45b9b7a2372f8748f0cb5d6c428f0db8e9b590017bca5e697990d2a67d21080ab614f378a0746e17a6207229e0a087e285841ef2f119a207ba1e66439015d6103a3acab5284898c056d00059c7f7e207872132022d05a4734b1d62b137e2f06e1":"d78fa042048d073899a09b615c29b10a37397b76f04921b7dcd3d2f530a831e553e6f7ad0ed4c00b0e59b7b9631fbd40d242252a111d569102c7872d48894a1a1d9290caae28edf82fe65b838b3cc0e88804589e520c8556ee88404cf07491d28bb1a1209428938c8e7a27e0e858029241":"2235d00a47d575cbfd3b38b96d":

GCM NIST Validation (AES-256,128,1024,1024,96) #1
gcm_encrypt_and_tag:"73198ae506e022e0692897f6b703db3d41e86697fb3777c1956ee27b9c9ab332a":"02b66f010ed8768a0396e75f31e174b3552a150acdd45b9b7a2372f8748f0cb5d6c428f0db8e9b590017bca5e697990d2a67d21080ab614f378a0746e17a6207229e0a087e285841ef2f119a207ba1e66439015d6103a3acab5284898c056d00059c7f7e207872132022d05a4734b1d62b137e2f06e1":"d78fa042048d073899a09b615c29b10a37397b76f04921b7dcd3d2f530a831e553e6f7ad0ed4c00b0e59b7b9631fbd40d242252a111d569102c7872d48894a1a1d9290caae28edf82fe65b838b3cc0e88804589e520c8556ee88404cf07491d28bb1a1209428938c8e7a27e0e858029241":"2235d00a47d575cbfd3b38b96d":

GCM NIST Validation (AES-256,128,1024,1024,96) #2
gcm_encrypt_and_tag:"1dcbd2788408434315bfb3883ffcdce87716e95ea991a1cc36d54409df09eaab0":"da3b8c9e4aa8443535b321ce39de3c6742df9d28c971527540b27293eabeb6359176c9b7e819343c30779209211695e86197b2d5fa64c6f7ff30b3482c38172acc98a99007679d028f8a2044c3933754157b690fb852746df0c13a04e67c6861975814d2b596677141b6cfe3e4299479192f2ce63a145067aa5d8bb":"b737bcedee4e83aa83124cf7208a671":"49a544ace

GCM NIST Validation (AES-256,128,1024,1024,96) #2
gcm_encrypt_and_tag:"1dcbd2788408434315bfb3883ffcdce87716e95ea991a1cc36d54409df09eaab0":"da3b8c9e4aa8443535b321ce39de3c6742df9d28c971527540b27293eabeb6359176c9b7e819343c30779209211695e86197b2d5fa64c6f7ff30b3482c38172acc98a99007679d028f8a2044c3933754157b690fb852746df0c13a04e67c6861975814d2b596677141b6cfe3e4299479192f2ce63a145067aa5d8bb":"b737bcedee4e83aa83124cf7208a671":"49a544ace

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GCM NIST Validation (AES-256,128,1024,1024,64) #0
gcm_encrypt_and_tag:"f552e2662c4542d0b7841d1c4a61225b52bf885d927448e45342fbedbe8d481eef3b9946397276fac388fe049532c2335f3e02611c8f33c3b9ad746660689595e585d40bc78e14d1cf7b4c57be4d8c634f1eaf80da4a78aaa03d3bc8bf1f523a4ebebee4067a947e42275b1e20db"=":9897da3061c77aab5eb54622":0
GCM NIST Validation (AES-256,128,1024,1024,32) #0
gcm_encrypt_and_tag:"c3b5434858e4a0bce50a76c988cedfcd241911cd66f5a5f9e09c79332bb0f3926117c0434770717c639579e4bec155d96b1ff0f4d6045f908cd4":"70e986fced03ae67":0
GCM NIST Validation (AES-256,128,1024,1024,64) #1
gcm_encrypt_and_tag:"a9e4f60f135e7b6ea0715154ee588b5253949bc34adde91ee67bb72e4514fddcf7":"02f288eea5588e70a11f491eeca232a7f060aace58a5b78a9e4973eb3d1b076959384ae871201682554e6a5b94976c6a1a7a3d354f1d6e3f0252bb2a3f1e93009e822a878590dbf1d69504220349e5aca0da85896595199f7f67b92df0dd1f09c540bd820848e6719c55940000cbad87342f0474e466c37887238":"149d88e7e186ca793471582532ed16edf3":"d4d6e1e87322e4a8d5bb92db760f6448306b6dfff99fab0055a62b6a30b5a5673a108f0ff9114d379f3e63a163047881c5cb03142109c158af4a0e2b4d38ed2284a9a406b7d6762bc8f133583f324a2f622e9a0aad2b11e35367927e18ea24f365016e8e002b32a7f9be8f05e00cb5329093cf2e23752":"36cddac99e2673588ba783d3e085b93553e266867a22bdac90d4deb4e8c77d6f804532662b00ad773ee4de7b4352e32562e857f843df6d87b102ad97edd6fe580aeb4ceu2ac21cf49c97398c232e02b0ca59257643f2b2e462bf9c04f65835d253e2e5087d5c5aca2eb2722d9500daecfaef0b7c3aaa2e91dd8b0930091e6cb":"73ebe403d9278e0":0
GCM NIST Validation (AES-256,128,1024,1024,64) #2
gcm_encrypt_and_tag:"db4b41bdc66c568900a85b5d8898697e6a05709948a9aa8be1e3a68a1cd01001e5a6":"182ed59dc1934199d2da2721715738c347e286f66e5a2b8b6519499a1f7fba2ads3751bemeb79714124d6f531461ead42f50d2a8b67fb998c90762f0fa3563a66974376216d1ce4fd31787791a07ebff82044d247edf522c52643f415f617a0f23103cda21a459f18b2151f47b30c3e4b7387ee5cb979abcfd9":"99aa6f5953543a409a18540d82fb3026":"55f6d5258d5a1885c8ea9a27276929e1e168c5c6a6da889d94106038b74deb79c9d43bfa47375148d843a5ee2487d0193eq0196198491b29e2d6d3753a399c19d2f33b2d6ab30f12adee07a6e9b930dca3af9bcf719f707fac27e2d8be2adee2ca878882a5f035025902797c6dbf930b41eca1f6d54d75b20e262ec7023e93":"5a1211218174e60960334856843a3066e2e8d996fe8a86d0f8fe09a9bea9f0aeac9d3ee15ec27eef5464b23eabe9778fc74206aa3ae165d5fbd9964ab07962f3e4b59d7a7b8d6675e56b5505f6f252bf2183bce443392982964e1662d519dc1f0a5bfi3140376c8890547ae71ae75c33383ba97fad9f0184dd311bbdaac3e":"8sdbd8740674b486":0
GCM NIST Validation (AES-256,128,1024,1024,32) #0
cadem_encryption_and_tag:"caded5f3122eef1dfb3c260cb19f54cfd732655ce4440c06b0c9e616ce01e61c4":"a3d6e55fa311a268cf14144a83abc6b5ed8e762a6ebe81269e03e9e8840333053b3c668c7be0f1cd84163fa1e8d5f05bf81f7ff9f1f3151f1a7f80c79682e3ed56f4785964a546bccc2a32d0da12a60105865a28594aee9b091740080d4a99fa161767a5c3b54c928896d3497e233af4e12d85d7575c7c8e99e2c5d55":"d765b9594e5b486888dc78ce6801516e":"ba045754971aae5d337ff22e0ad287551e7084f1e9c38231d677519e39803563e183a99a3c760ec7a8ede505edac82db1c3e135570f
GCM NIST Validation (AES-256,128,0,0,128) #0
gcm_encrypt_and_tag:"714df4b699de00067c4ab550f37f72358b0a950dea2c0f00e02e8ccc103132c":"c46df3d6fae2d2cee03bd033fbc2e6478":"":"120":"3b4294d34352743c4b48c407be78754076a":0

GCM NIST Validation (AES-256,128,0,0,128) #1

gcm_encrypt_and_tag:"7736dbb38f1fe351a7fa101d91da62124c22ac02ee006b49143f56691067572f7":"5f01779e5c4471cd95a9f08445eb5b":"":"128":"1af0fe8f40b93e7b5a63008df54777":0

GCM NIST Validation (AES-256,128,0,0,128) #2
gcm_encrypt_and_tag:"714df4b699de00067c4ab550f37f72358b0a950dea2c0f00e02e8ccc103132c":"c46df3d6fae2d2cee03bd033fbc2e6478":"":"120":"3b4294d34352743c4b48c407be78754076a":0

GCM NIST Validation (AES-256,128,0,0,128) #3

gcm_encrypt_and_tag:"714df4b699de00067c4ab550f37f72358b0a950dea2c0f00e02e8ccc103132c":"c46df3d6fae2d2cee03bd033fbc2e6478":"":"120":"3b4294d34352743c4b48c407be78754076a":0

GCM NIST Validation (AES-256,128,0,0,128) #4
gcm_encrypt_and_tag:"714df4b699de00067c4ab550f37f72358b0a950dea2c0f00e02e8ccc103132c":"c46df3d6fae2d2cee03bd033fbc2e6478":"":"120":"3b4294d34352743c4b48c407be78754076a":0

GCM NIST Validation (AES-256,128,0,0,128) #5
gcm_encrypt_and_tag:"714df4b699de00067c4ab550f37f72358b0a950dea2c0f00e02e8ccc103132c":"c46df3d6fae2d2cee03bd033fbc2e6478":"":"120":"3b4294d34352743c4b48c407be78754076a":0

GCM NIST Validation (AES-256,128,0,0,128) #6
gcm_encrypt_and_tag:"714df4b699de00067c4ab550f37f72358b0a950dea2c0f00e02e8ccc103132c":"c46df3d6fae2d2cee03bd033fbc2e6478":"":"120":"3b4294d34352743c4b48c407be78754076a":0

GCM NIST Validation (AES-256,128,0,0,128) #7
gcm_encrypt_and_tag:"714df4b699de00067c4ab550f37f72358b0a950dea2c0f00e02e8ccc103132c":"c46df3d6fae2d2cee03bd033fbc2e6478":"":"120":"3b4294d34352743c4b48c407be78754076a":0

GCM NIST Validation (AES-256,128,0,0,128) #8
gcm_encrypt_and_tag:"714df4b699de00067c4ab550f37f72358b0a950dea2c0f00e02e8ccc103132c":"c46df3d6fae2d2cee03bd033fbc2e6478":"":"120":"3b4294d34352743c4b48c407be78754076a":0

GCM NIST Validation (AES-256,128,0,0,128) #9
gcm_encrypt_and_tag:"714df4b699de00067c4ab550f37f72358b0a950dea2c0f00e02e8ccc103132c":"c46df3d6fae2d2cee03bd033fbc2e6478":"":"120":"3b4294d34352743c4b48c407be78754076a":0

GCM NIST Validation (AES-256,128,0,0,128) #10
gcm_encrypt_and_tag:"714df4b699de00067c4ab550f37f72358b0a950dea2c0f00e02e8ccc103132c":"c46df3d6fae2d2cee03bd033fbc2e6478":"":"120":"3b4294d34352743c4b48c407be78754076a":0
GCM NIST Validation (AES-256,128,0,0,120) #2
gcm_encrypt_and_tag:"d7e90b539c998e8c2187ed72823258ec1149890a69a9c0081ff8c6e6e12cdea9f2f6"::"6dba3273560f30f118a2e0251f7b7d76"::"120:"5f45e00181d2d7feb4723e0edc2a4":0

GCM NIST Validation (AES-256,128,0,0,112) #0
gcm_encrypt_and_tag:"2948233eeceef8ad72f5b20b6d26f9219d30e314c5932383203805ff93d5c5f"::"d6b8e72327e26922b78756df6e03432"::"112:"14e9a9a217a334c0b8e627641fe":0

GCM NIST Validation (AES-256,128,0,0,112) #1
gcm_encrypt_and_tag:"73f3f5e732ebc1dc7c9iae25ce0d612d7e212ba5f2151c04d3290d77c34d1"::"c31220835b11d61920a2e91e335907e"::"112:"9eb18097d366b7d5e161ae4e96":0

GCM NIST Validation (AES-256,128,0,0,104) #2
gcm_encrypt_and_tag:"a46aff2121825814c603b258f71d47bd9c9d3db4c6fe0f900e0e99d36c8f8d66"::"7e0d5550a20d958490739be8a5c72440f"::"112:"8c76e6bda0f1df7f105a62c5f93d":0

GCM NIST Validation (AES-256,128,0,0,104) #0
gcm_encrypt_and_tag:"614a12c76de551f79a146962913f60fd4d4313365b711217aa4bea115f726"::"2d25462c90ad9a21073729e5e6f99957"::"104:"e4d3b277dc9a107c0392ca1e5b":0

GCM NIST Validation (AES-256,128,0,0,104) #1
gcm_encrypt_and_tag:"4b233480239fadb2035a7c9207a8e1ab2da45a90a472b30848fe4b4757c628db"::"50d45096afdf0571e171e1ab1f7b3720f"::"104:"5393bc0698c5eef1264fd6084":0

GCM NIST Validation (AES-256,128,0,0,104) #2
gcm_encrypt_and_tag:"de051ac63e6b051594158399291ed1013efbb1701b98819c4835a4863734371"::"1f304d4df784ab560366215649b0a64"::"104:"801dda9e0a793916dc82f7848":0

GCM NIST Validation (AES-256,128,0,0,96) #0
gcm_encrypt_and_tag:"75f76df772af8e3019a4c1588a7d59295ff80ce0d5647030f29548374e7bccc9e8"::"d407264e09fbc853b131c8a9f80f1de"::"96:"d515522db52bb772a4d3f9d1":0

GCM NIST Validation (AES-256,128,0,0,96) #1
gcm_encrypt_and_tag:"608d7592c094322b31d4583a430986bdf6aa639c4bb4a0b3903e588b45c38d3"::"6a63195a4990ae6b6dd51052eb407168"::"96:"eb8851cfdd4fc841173c4985":0

GCM NIST Validation (AES-256,128,0,0,96) #2
gcm_encrypt_and_tag:"86a903631e5341e67da55e6b07522507b4377bab7f3e2e26cf6e89ef9d2410"::"67763ee1890e4b4b430ac30dbce2af997"::"96:"c6d11901b53cf6b13ac03cc5":0

GCM NIST Validation (AES-256,128,0,0,64) #0
gcm_encrypt_and_tag:"b8d12783b2a254b8499ea56e77491d2794057e05fd7af7da597241d91d832b33a"::"0365436099fe57b4c027c758182e09b":"64:"41fc42d8c9999d8c":0

GCM NIST Validation (AES-256,128,0,0,64) #1
gcm_encrypt_and_tag:"eb17ce1bbded356070ca38f3c8899b3751eeab59ff3663ce8e51d321fc3060b7ace2"::"aca76b235
GCM NIST Validation (AES-256,128,0,0,64) #2
gcm_encrypt_and_tag:"916aea7c3283aadab60908ec747b5e82364e1827ec29bedcdadacb9b935221c1"":""":"e4afe6f81872729ff5a3ac16f4922aa"":""":"64":"2035a7ce8181b1eb4"":0

GCM NIST Validation (AES-256,128,0,0,32) #0
gcm_encrypt_and_tag:"47b4b7fe91582a2f6f121d12fd465967352e58d9f3d1bf27478da39514510055"":""":"137bc31639a8a5d6b3c41015107c662"":""":"32":"822955ba"":0

GCM NIST Validation (AES-256,128,0,0,32) #1
gcm_encrypt_and_tag:"8955cdce65978bd64ef5228308317a1ba6afbb5a80cf5905f3aed03058b797"":""":"1370c7256d97b9b9531ec02e2a5a937"":""":"32":"b2f779e8"":0

GCM NIST Validation (AES-256,128,0,0,64) #0
gcm_encrypt_and_tag:"f9aab5d2ea01b99d35c78ae24e07c54ed154e49d9644776f65878199bc5e4"":""":"96ec2252e51e9fbb731b6b07929e32297"":"983a102a673594f4ecacc465b6d5908a487c98ce593be8949a39b721728edc9917261fba49607eedf188a75ae9ab82a195b65ebdf48d7ee3c4a2b56832f21a483d48c8400deaa71537f4ac59d1cfc9fd2cc97b32eb7c5146ec4f7e5ac779e9be0ae5878a59fe2f138d45370b8cb6d70eb713fdd2f7772fa25095060984"":""":"128":766b6dc491a5836ef9f47ac691ec"":0

GCM NIST Validation (AES-256,128,0,1024,128) #0
gcm_encrypt_and_tag:"99a9b5d2ea01b99d35c78ae24e07c54ed154e49d9644776f65878199bc5e4"":""":"96ec2252e51e9fbb731b6b07929e32297"":"983a102a673594f4ecacc465b6d5908a487c98ce593be8949a39b721728edc9917261fba49607eedf188a75ae9ab82a195b65ebdf48d7ee3c4a2b56832f21a483d48c8400deaa71537f4ac59d1cfc9fd2cc97b32eb7c5146ec4f7e5ac779e9be0ae5878a59fe2f138d45370b8cb6d70eb713fdd2f7772fa25095060984"":""":"128":766b6dc491a5836ef9f47ac691ec"":0

GCM NIST Validation (AES-256,128,0,1024,128) #1
gcm_encrypt_and_tag:"795d63117e988bf53020d2b4607c04d1fab33a85b09484fe6659c500fd846b"":""":"f3f5cc7c1ec0b77113442269e478ed81"":""":"32":"e4e6dfcc"":0

GCM NIST Validation (AES-256,128,0,1024,128) #2
gcm_encrypt_and_tag:"7795d631f7e988bf53020d2b4607c04d1fab33a85b09484fe6659c500fd846b"":""":"f3f5cc7c1ec0b77113442269e478ed81"":""":"32":"e4e6dfcc"":0

GCM NIST Validation (AES-256,128,0,1024,128) #0
gcm_encrypt_and_tag:"f9aab5d2ea01b99d35c78ae24e07c54ed154e49d9644776f65878199bc5e4"":""":"96ec2252e51e9fbb731b6b07929e32297"":"983a102a673594f4ecacc465b6d5908a487c98ce593be8949a39b721728edc9917261fba49607eedf188a75ae9ab82a195b65ebdf48d7ee3c4a2b56832f21a483d48c8400deaa71537f4ac59d1cfc9fd2cc97b32eb7c5146ec4f7e5ac779e9be0ae5878a59fe2f138d45370b8cb6d70eb713fdd2f7772fa25095060984"":""":"128":766b6dc491a5836ef9f47ac691ec"":0

GCM NIST Validation (AES-256,128,0,1024,128) #1
gcm_encrypt_and_tag:"1e3b94f5883239c45ed4df6930e453e9ff6d70b1c6ceee845bbce6f29a762713b"":""":"61155f27c
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629db6c6f49b192b0b50d6":"5b7482e9b638cb23dba327cc08309dbd4038100a047c36091457971bad3ab263efa8f
36d8d04f5d43ea33836fed7eae5eb89c190add2688da857e48fd40704478a359cfe1b2a3f3d5e7ae0f64af4738a7c7cf
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7003f04d66bd9cd794e27b9c5d5e5"":0

GCM NIST Validation (AES-256, 0, 1024)
"#2"
gcm_encrypt_and_tag:"9080effb27994ef831689da10600e7a219db936d9064757702c217b08057eb3":"":"f45514e69
65f5ee1e65e7977f7cf005e5c":"5251f000f7c7106c008c012297f100706d625b734a32a4f4f35f835d25c878215e7a929b96
36c8969af8bf1817174351b71d69123021fi58779762fd1d4f5f849e4612e3304ae3303ace7b8aca1a435f4e66207c18
3a1695873f5567397578283433d1e76cece1103ee76f8e0472814424b891caeeaf1624311tb73535afced2d2":":120:"
cfb6d9bbcc037f8abae08fd230edc1"":0

GCM NIST Validation (AES-256, 0, 1024, 1024)
"#0"
gcm_encrypt_and_tag:"8c291f0ad78908377309f595910de305b9ced1951a3e5ebf0b4b64e4a1af9946339c":":19830d56
63418add5f3c0cb1049d67b06b22429aaf8d29c9d49349744d06407fd012d6d682684
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81635f36d0ee19f038cc36493d9a1809a49an5798e181679d82cba22b0b4e64f56af5e05e0c12b312ba87":":112:
275450889e5e5c4b9a08ce7f20b"":0

GCM NIST Validation (AES-256, 0, 1024, 1024)
"#1"
gcm_encrypt_and_tag:"96c77c11a3336a41b61ff1dc172a480735bbe91dd4c71f4dcb3e621c5335852":":655502d7
01193264058cc0a2e7a572c":":c01034fcb67708128fbfd4d6f4a4b8d80a14939b9e1d0d0779f509479b365ff5aee929068
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cc4fd8ad7c14c764a4f2b909b3f5604a449e80494a66b1692467419cf88fa5ed1ab7f313b4b55606ca4":":112:"
b4581464c4bb234336994c18d12dc":0

GCM NIST Validation (AES-256, 0, 1024, 1024)
"#2"
gcm_encrypt_and_tag:"e2a395736966278f05f2fdefe658e1f7fe32811e323b62a31a3938930764":":a6f5a1ff1f1
ac77a1ecb010d2dd43255cbce":":ce9c268429ca9e35c958ca3e819356ce6016a6ea0be15975babf69103251efad54cbcc0bed
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c5986df8e9761d52cb578e961b":0

GCM NIST Validation (AES-256, 0, 1024, 1024)
"#0"
gcm_encrypt_and_tag:"2b17652f7f04073afe9d6b8b2615c755096b89776b139ffe4f0b030912cbd":":9a8ac23ea
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GCM NIST Validation (AES-256, 0, 1024, 1024)
"#1"
gcm_encrypt_and_tag:"16fe502e20d6473ed9a275796b63a7878cecd428798040cfb0337d5f10775804619":":431a8d78
b91414737c76188328af63d":":934acbacabc10e4af3feee94b17bd7379b884898f123bf496c78c96b02ee97fd62e0dd0
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4523e66f2d6263d6a12fd3e66d27c3b7d1566553c9b434ed193db083160da1f241de190bcdb36f435e30f4":":104:
1ddd3e6d10f359cc4e98d36244":0

GCM NIST Validation (AES-256, 0, 1024, 1024)
"#2"
GCM NIST Validation (AES-256,128,0,1024,96) #0
gcm_encrypt_and_tag:"8340d604770c778ea883d0ffdf5703b1f6034c9bfe6b6f4c65e2d00e12c19bddd8":"c0a580465bb2e8344f79a5678a5151":"799f22896e8f7865dfcfa00ddd7366de2e4a78029dbcc857de50fa7c74343458df3465103556a3bfc5e217fbb5b823e5c97f67b02204f6d05bca6b790d5958a8ba543540e625263c628e8746e451504fc58a1799f07f72b293d8dbf5582b031082025c80e60143da9e6bb6133ac8637676d0572b325969e799540ae":"96":318f56bd0f3832d43e4f700a:

GCM NIST Validation (AES-256,128,0,1024,96) #1
gcm_encrypt_and_tag:"441ec8afce6308d05d0c9e898b200e59f566afe5e15f58241e6f16cac746fbb9":"a1cebeffaf55708c375dcefe4966bf21fae":"5a6ba5d3fa47a4b317c6c0b0df4a27ba237f3cca371977f4ed335af3d357e49f76d3e88c53fd35561565354693efe8fb5277f7f7a99b3465223df030154e53f4e0f75f016aa500c76870e6659a5f9af197c9a815bf9e0416ed8948e68466c4386a7442bb0ce089a9ab8498131301e4ecf0ba358293cf94647f56a4b":"96":bc1b8b94ff478d9e197551cd:

GCM NIST Validation (AES-256,128,0,1024,64) #0
gcm_encrypt_and_tag:"d643111c973ffbf7565bf6bf394eedac54be2c556963b181cf661ba144f7893a62":"a4575b00b9af2195a0c75855d396e4e8":"b2c53eef59c8e4651979bbcc1bc76b0bbf5e2b5c3115849abdb4c6a06e2b1699db29e5fcb3476e849c9edbe6ea14c2ab948ed7f212a12f69046621d342b04eaf813e722d97397a33a361ed8081ce0b000c3c7d4e329f5ba4f7b75d534500f42f178048cf2e95b768f6ed79c350f2ff72cb355abdb30af0a136360b4a":"96":9d1d182630d7aeeecom:

GCM NIST Validation (AES-256,128,0,1024,64) #1
gcm_encrypt_and_tag:"91301ee0ca694ae976f7ee705f53c7ec467f4c88257d6466ff68159a8970384ab9":"345fb57e88124a41828730a85f57871":"c13623824a204385f5323880985e2db23426f00a73c60c1bbf1047ce2c7cdff717ce8475781fe0705d1226ad18871e120f156f356ece07302e3ebade1c8079f9ede720ff77a27a2f4690904be9e9985465509eaeb06e97c4283596eefeaa2b2517e95de7620382e3f780eaf1dbf5d3908373adefe784a4fafa298681e171bade4b3":"64":325d08c5b96068c1:

GCM NIST Validation (AES-256,128,0,1024,64) #2
gcm_encrypt_and_tag:"bba5c11daed7f868d9b6f577d4d555a147a1ff9d9890c1cd51d366800e5c10":"b0ce92b79d78547496d7707678e1c1552":"5b1ac8ff68f76fd249dc09a891f3826d143a1a6372cc787845ceae8d9b47787080bc0a5389f9e1031850f7c01979b6f4e29adcede1d51ca7f5203e30580febe5434777d9e0e3d7a66a1da1e2dbdb8b92e92100daf703845db5dc0db243819754c408ff4fc3631d1cd879ac7604746d677ff03590fcd6dbd652e7864db":"64":b18196b2d788616:

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GCM NIST Validation (AES-256,128,1024,0,32) #1
gcm_encrypt_and_tag:"f420b6ef9d69f9be46dfcf18246ee2307906a8f547f0d2d1f0d08e9b5c4a776":"6b58a954dc61d0d6f0e81a31c665684483d9f52806d4c9643585962c5ac4a389932d74a13a71d04e1897b7110e43f5dab3128c2c4e6c35069bf84723a9e8ab9d065ebbd12c317bf6b7909009638c11840f04be10f5058d6b8f847536c886f7d144ed07272a7e62bf523a0411e5e9e1a145fd17e2143006db1d4e4e":"498250fa37ea8b8c3f16ed466c96f1":""":"8630aa78aa3be539d630a449b204920bf67f0d4d77e394980f3c55a333ad5f4e9eda2e6dc50c5e34908f52819e8c8ba1aee881186cf45d3eb22f4868320ce7e0f8bf7b3c11b23a2826e7e82f3e05881bf7d95454dcedc7f2e5358cd0e9ea2e9cf938be044c1b21911d50b2ae23ab1aee7375711a657adcb560c34092f8b":"32:aa91b73":0

GCM NIST Validation (AES-256,128,1024,1024,128) #0
gcm_encrypt_and_tag:"29072ab5bad2c1425ca500f62be87f7b8d0b208ff77b88b0d3fa9d0d36ec6c":"3c7afec5cfe5a1e1415879ef3898f427d4f21d69288b937c9be6e6e3ce168637a31a5538487e8280a8e2ab020766ac1ac7e2e49fae5f19e75e7f86b0ca9ebab83bd63ae26ca5387abdb9a60c4a9928484742a91294b13ab8f51eb4f9f9a03e9c1894aca326a24e2793ee6793df473f432343aeb4ad4d585a7d92a0a0ef80c73c8e6f67f5b5a4":"0201edf80475d29f69a90848f639528e":"4c48f3dee6a8e47bb782437992214d2c669a127da6b785309a311be684dc249fcf3999271347b19e1045c1060802ff3742b68780d909589cc082d7d0d580dfb723111cf6b12227cfdee7f7ae4f8defd34c89b0d8657078e782192a7bd9a5464f35d6ca282cf9cc33dfac988d192edf80795e2cc2a113f827ada88834974df8be69":"32:3c1c4c5":0

GCM NIST Validation (AES-256,128,1024,1024,128) #1
gcm_encrypt_and_tag:"aa999aa95f37290d1c288fd3e307a471160635287eebf41d7782d119f9d1":"6c6e62c2d02702019e15a2a1f0f678f0f55b2cbad6a188bbd5235a3deb67772f0165079d2d02979d4542e42372886e1a6d74c59c673f551fe0a6f4d262d21412c7edc76c76055b16371136cd0f04d72c4513b8a5b2e03df4c8249a9519b9b0c2693c486e9d136e940f5076cd1d86244ce50be318ae0464b79eacd":"629956d1a032fd3a7e6b25ace6606e3":"afab0a3d1960ae973ee24f1d1cad10d189142b37e57cad8788bb4d24351f6eebd6725aaf5892393dfaf93c3fe1342d2911e1bfb1b0a802e3a0eda2226def67ed2105405a333ec39a5e8s57b53a35a3ed3ff0e182894067407647075cf7d9614ec464b4b0c4903e186bca9b162c703642e2e008312b76741d365031d83fa5a":"a8059f6c67f16116af591b5e5de497b3b7813f9d6e58c7b47ec3e7b074d0805e1b9a0585698341686898349f5dbf287ae619837edbb931eeb0e26be6e4a2e7oa80302d82a9111303208caceaf77e5d1996ccaff9e1aeb7129d19617455f714ec2ddc515f682667b7a2da015e1886fa7b1e496a542d94a38efbc5353fb89":"32:2f4f8dd0040ad63a6a8e7842eeb16eb":0

GCM NIST Validation (AES-256,128,1024,0,32) #2
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b1def37dd5be0570a204955121f9c65b79a3ea88fc452dbcb82719243c11bc27c3408ad802b6e84e701ee4e9dfd140
c3277bfc605db5df875d22352785fc6fd1ea5a6207fac54;"49b5e4e042103e4074e6c67dd39a0310e3f318e138672
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GCM NIST Validation (AES-256,128,1024,1024,32) #1
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GCM NIST Validation (AES-256,128,1024,1024,32) #2
gcm_encrypt_and_tag:"1477ef1899fb3546aefac514f4f2e1322ff0081be76e912e25bce7ad63f1c2c4;"7bd3ea956f4b
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-----BEGIN RSA PRIVATE KEY-----

Proc-Type: 4,ENCRYPTED

DEK-Info: AES-256-CBC,53572EEE794948AC48CB0E077C0E75A

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3A0i0yfL4831LsdATY660uZ0e3CABLeoZsvulLMWsd8b9WZXknsnFEDLGOM+Hgj8Q

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# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
dialog.bolditalic.japanese-x0208=Sazanami Gothic
dialog.bolditalic.korean=Baekmuk Gulim
dialog.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialog.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.plain.latin-1=DejaVu LGC Sans
sansserif.plain.japanese-x0208=Sazanami Gothic
monospaced.plain.latin-1=DejaVu LGC Sans Mono
monospaced.plain.japanese-x0208=Sazanami Gothic
monospaced.plain.korean=Baekmuk Gulim
monospaced.plain.chinese-big5=AR PL ShanHeiSun Uni
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monospaced.bold.latin-1=DejaVu LGC Sans Mono Bold
monospaced.bold.japanese-x0208=Sazanami Gothic
monospaced.bold.korean=Baekmuk Gulim
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monospaced.bold.chinese-gb18030=AR PL ShanHeiSun Uni

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monospaced.italic.japanese-x0208=Sazanami Gothic
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dialoginput.plain.japanese-x0208=Sazanami Gothic
dialoginput.plain.korean=Baekmuk Gulim
dialoginput.plain.chinese-big5=AR PL ShanHeiSun Uni
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dialoginput.bold.latin-1=DejaVu LGC Sans Mono Bold
dialoginput.bold.japanese-x0208=Sazanami Gothic
dialoginput.bold.korean=Baekmuk Gulim
dialoginput.bold.chinese-big5=AR PL ShanHeiSun Uni
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dialoginput.italic.latin-1=DejaVu LGC Sans Mono Oblique
dialoginput.italic.japanese-x0208=Sazanami Gothic
dialoginput.italic.korean=Baekmuk Gulim
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
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# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf
filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf
filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
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*/

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package java.lang;

import java.io.BufferedInputStream;
import java.io.BufferedOutputStream;
import java.io.ByteArrayInputStream;
import java.io.FileDescriptor;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.util.Arrays;
import java.util.Locale;
import java.util.concurrent.Executors;
import java.util.concurrent.Executor;
import java.util.concurrent.ThreadFactory;
import java.security.AccessController;
import static java.security.AccessController.doPrivileged;
import java.security.PrivilegedAction;
import java.security.PrivilegedActionException;
import java.security.PrivilegedExceptionAction;

/**
 * java.lang.Process subclass in the UNIX environment.
 */
final class UNIXProcess extends Process {
    private static final sun.misc.JavaIOFileDescriptorAccess fdAccess
        = sun.misc.SharedSecrets.getJavaIOFileDescriptorAccess();

    private final int pid;
    private int exitcode;
    private boolean hasExited;

    private /* final */ OutputStream stdin;
    private /* final */ InputStream stdout;
    private /* final */ InputStream stderr;

    private static enum LaunchMechanism {
        FORK(1),
        POSIX_SPAWN(2);
    }

    private int value;
    LaunchMechanism(int x) {value = x;}
}

/* On BSD, the default is to spawn */
private static final LaunchMechanism launchMechanism;
private static byte[] helperpath;

private static byte[] toCString(String s) {
    if (s == null)
        return null;
    byte[] bytes = s.getBytes();
    byte[] result = new byte[bytes.length + 1];
    System.arraycopy(bytes, 0,
                     result, 0,
                     bytes.length);
    result[result.length-1] = (byte)0;
    return result;
}

static {
    launchMechanism = AccessController.doPrivileged(
        new PrivilegedAction<LaunchMechanism>()
    )
    {
        public LaunchMechanism run() {
            String javahome = System.getProperty("java.home");
            helperpath = toCString(javahome + "/lib/jspawnhelper");
        }
    }
String s = System.getProperty(
    "jdk.lang.Process.launchMechanism", "posix_spawn");

try {
    return LaunchMechanism.valueOf(s.toUpperCase(Locale.ENGLISH));
} catch (IllegalArgumentException e) {
    throw new Error(s + " is not a supported " +
        "process launch mechanism on this platform.");
}
}
}

waitForProcessExit(int pid);

/**
 * Create a process. Depending on the mode flag, this is done by
 * one of the following mechanisms.
 * - fork(2) and exec(2)
 * - posix_spawn(2)
 *
 * @param fds an array of three file descriptors.
 *        Indexes 0, 1, and 2 correspond to standard input,
 *        standard output and standard error, respectively. On
 *        input, a value of -1 means to create a pipe to connect
 *        child and parent processes. On output, a value which
 *        is not -1 is the parent pipe fd corresponding to the
 *        pipe which has been created. An element of this array
 *        is -1 on input if and only if it is &lt;em&gt;not&lt;/em&gt; -1 on
 *        output.
 * @return the pid of the subprocess
 */
private native int forkAndExec(int mode, byte[] helperpath,
    byte[] prog,
    byte[] argBlock, int argc,
    byte[] envBlock, int envc,
    byte[] dir,
    int[] fds,
    boolean redirectErrorStream)
    throws IOException;

/**
 * The thread factory used to create "process reaper" daemon threads.
 */
private static class ProcessReaperThreadFactory implements ThreadFactory {
    private final static ThreadGroup group = getRootThreadGroup();
}
private static ThreadGroup getRootThreadGroup() {
    return doPrivileged(new PrivilegedAction<ThreadGroup>() {
        public ThreadGroup run() {
            ThreadGroup root = Thread.currentThread().getThreadGroup();
            while (root.getParent() != null)
                root = root.getParent();
            return root;
        }
    });
}

public Thread newThread(Runnable grimReaper) {
    // Our thread stack requirement is quite modest.
    Thread t = new Thread(group, grimReaper, "process reaper", 32768);
    t.setDaemon(true);
    // A small attempt (probably futile) to avoid priority inversion
    t.setPriority(Thread.MAX_PRIORITY);
    return t;
}

/**
 * The thread pool of "process reaper" daemon threads.
 */
private static final Executor processReaperExecutor =
        doPrivileged(new PrivilegedAction<Executor>() {
            public Executor run() {
                return Executors.newCachedThreadPool
                        (new ProcessReaperThreadFactory());
            }
        });

UNIXProcess(final byte[] prog,
        final byte[] argBlock, final int argc,
        final byte[] envBlock, final int envc,
        final byte[] dir,
        final int[] fds,
        final boolean redirectErrorStream)
        throws IOException {

    pid = forkAndExec(launchMechanism.value,
            helperpath,
            prog,
            argBlock, argc,
            envBlock, envc,
            dir,
            fds,
            redirectErrorStream);

    try {


doPrivileged(new PrivilegedExceptionAction<Void>() {
    public Void run() throws IOException {
        initStreams(fds);
        return null;
    }
});
} catch (PrivilegedActionException ex) {
    throw (IOException) ex.getException();
}

static FileDescriptor newFileDescriptor(int fd) {
    FileDescriptor fileDescriptor = new FileDescriptor();
    fdAccess.set(fileDescriptor, fd);
    return fileDescriptor;
}

void initStreams(int[] fds) throws IOException {
    stdin = (fds[0] == -1) ?
        ProcessBuilder.NullOutputStream.INSTANCE :
        new ProcessPipeOutputStream(fds[0]);

    stdout = (fds[1] == -1) ?
        ProcessBuilder.NullInputStream.INSTANCE :
        new ProcessPipeInputStream(fds[1]);

    stderr = (fds[2] == -1) ?
        ProcessBuilder.NullInputStream.INSTANCE :
        new ProcessPipeInputStream(fds[2]);

    processReaperExecutor.execute(new Runnable() {
        public void run() {
            int exitcode = waitForProcessExit(pid);
            UNIXProcess.this.processExited(exitcode);
        }
    });
}

void processExited(int exitcode) {
    synchronized (this) {
        this.exitcode = exitcode;
        hasExited = true;
        notifyAll();
    }
}

if (stdout instanceof ProcessPipeInputStream)
    ((ProcessPipeInputStream) stdout).processExited();

if (stderr instanceof ProcessPipeInputStream)
    ((ProcessPipeInputStream) stderr).processExited();
if (stdin instanceof ProcessPipeOutputStream)
    ((ProcessPipeOutputStream) stdin).processExited();
}

public OutputStream getOutputStream() {
    return stdin;
}

public InputStream getInputStream() {
    return stdout;
}

public InputStream getErrorStream() {
    return stderr;
}

public synchronized int waitFor() throws InterruptedException {
    while (!hasExited) {
        wait();
    }
    return exitcode;
}

public synchronized int exitValue() {
    if (!hasExited) {
        throw new IllegalThreadStateException("process hasn't exited");
    }
    return exitcode;
}

private static native void destroyProcess(int pid);

public void destroy() {
    // There is a risk that pid will be recycled, causing us to
    // kill the wrong process! So we only terminate processes
    // that appear to still be running. Even with this check,
    // there is an unavoidable race condition here, but the window
    // is very small, and OSes try hard to not recycle pids too
    // soon, so this is quite safe.
    synchronized (this) {
        if (!hasExited) {
            destroyProcess(pid);
        }
        try { stdin.close(); } catch (IOException ignored) {}
        try { stdout.close(); } catch (IOException ignored) {}
        try { stderr.close(); } catch (IOException ignored) {}
    }
}
private static native void init();

static {
  init();
}

/**
 * A buffered input stream for a subprocess pipe file descriptor
 * that allows the underlying file descriptor to be reclaimed when
 * the process exits, via the processExited hook.
 *
 * This is tricky because we do not want the user-level InputStream to be
 * closed until the user invokes close(), and we need to continue to be
 * able to read any buffered data lingering in the OS pipe buffer.
 */
static class ProcessPipeInputStream extends BufferedInputStream {
  private final Object closeLock = new Object();

  ProcessPipeInputStream(int fd) {
    super(new FileInputStream(newFileDescriptor(fd)));
  }

  private static byte[] drainInputStream(InputStream in) throws IOException {
    int n = 0;
    int j;
    byte[] a = null;
    while ((j = in.available()) > 0) {
      a = (a == null) ? new byte[j] : Arrays.copyOf(a, n + j);
      n += in.read(a, n, j);
    }
    return (a == null || n == a.length) ? a : Arrays.copyOf(a, n);
  }

  /** Called by the process reaper thread when the process exits. */
  synchronized void processExited() {
    synchronized (closeLock) {
      try {
        InputStream in = this.in;
        // this stream is closed if and only if: in == null
        if (in != null) {
          byte[] stragglers = drainInputStream(in);
          in.close();
          this.in = (stragglers == null) ?
            ProcessBuilder.NullInputStream.INSTANCE :
            new ByteArrayInputStream(stragglers);
        }
      } catch (IOException ignored) {}
    }
  }
}
@Override
public void close() throws IOException {
    // BufferedInputStream#close() is not synchronized unlike most other methods.
    // Synchronizing helps avoid race with processExited().
    synchronized (closeLock) {
        super.close();
    }
}

/**
 * A buffered output stream for a subprocess pipe file descriptor
 * that allows the underlying file descriptor to be reclaimed when
 * the process exits, via the processExited hook.
 */
static class ProcessPipeOutputStream extends BufferedOutputStream {
    ProcessPipeOutputStream(int fd) {
        super(new FileOutputStream(newFileDescriptor(fd)));
    }

    /** Called by the process reaper thread when the process exits. */
    synchronized void processExited() {
        OutputStream out = this.out;
        if (out != null) {
            try {
                out.close();
            } catch (IOException ignored) {
                // We know of no reason to get an IOException, but if
                // we do, there's nothing else to do but carry on.
            }
            this.out = ProcessBuilder.NullOutputStream.INSTANCE;
        }
    }
}

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SUNWprivate_1.1 {
  global:
    Java_ja_va_nio_MappedByteBuffer_force0;
    Java_ja_va_nio_MappedByteBuffer_isLoaded0;
    Java_ja_va_nio_MappedByteBuffer_load0;
    Java_sun_nio_ch_DatagramChannelImpl_disconnect0;
    Java_sun_nio_ch_DatagramChannelImpl_initIDs;
    Java_sun_nio_ch_DatagramChannelImpl_receive0;
    Java_sun_nio_ch_DatagramChannelImpl_send0;
    Java_sun_nio_ch_DatagramDispatcher_read0;
    Java_sun_nio_ch_DatagramDispatcher_readv0;
    Java_sun_nio_ch_DatagramDispatcher_write0;
    Java_sun_nio_ch_DatagramDispatcher_writev0;
    Java_sun_nio_ch_FileChannelImpl_close0;
    Java_sun_nio_ch_FileChannelImpl_initIDs;
    Java_sun_nio_ch_FileChannelImpl_map0;
    Java_sun_nio_ch_FileChannelImpl_position0;
    Java_sun_nio_ch_FileChannelImpl_transferTo0;
    Java_sun_nio_ch_FileChannelImpl_unmap0;
    Java_sun_nio_ch_FileDispatcherImpl_close0;
    Java_sun_nio_ch_FileDispatcherImpl_closeIntFD;
    Java_sun_nio_ch_FileDispatcherImpl_force0;
    Java_sun_nio_ch_FileDispatcherImpl_init;
    Java_sun_nio_ch_FileDispatcherImpl_lock0;
    Java_sun_nio_ch_FileDispatcherImpl_preClose0;
    Java_sun_nio_ch_FileDispatcherImpl_read0;
    Java_sun_nio_ch_FileDispatcherImpl_pwrit0;
    Java_sun_nio_ch_FileDispatcherImpl_readv0;
    Java_sun_nio_ch_FileDispatcherImpl_release0;
Java_sun_nio_ch_FileDispatcherImpl_size0;
Java_sun_nio_ch_FileDispatcherImpl_truncate0;
    Java_sun_nio_ch_FileDispatcherImpl_write0;
    Java_sun_nio_ch_FileDispatcherImpl_writev0;
Java_sun_nio_ch_FileKey_init;
    Java_sun_nio_ch_FileKey_initIDs;
Java_sun_nio_ch_InheritedChannel_close0;
Java_sun_nio_ch_InheritedChannel_dup;
Java_sun_nio_ch_InheritedChannel_dup2;
Java_sun_nio_ch_InheritedChannel_open0;
Java_sun_nio_ch_InheritedChannel_peerAddress0;
Java_sun_nio_ch_InheritedChannel_peerPort0;
Java_sun_nio_ch_InheritedChannel_soType0;
    Java_sun_nio_ch_IOUtil_configureBlocking;
    Java_sun_nio_ch_IOUtil_drain;
    Java_sun_nio_ch_IOUtil_fdVal;
    Java_sun_nio_ch_IOUtil_initIDs;
    Java_sun_nio_ch_IOUtil_makePipe;
    Java_sun_nio_ch_IOUtil_randomBytes;
    Java_sun_nio_ch_IOUtil_setfdVal;
Java_sun_nio_ch_KQueue_kqueue;
Java_sun_nio_ch_KQueue_keventRegister;
Java_sun_nio_ch_KQueue_keventPoll;
Java_sun_nio_ch_KQueue_keventSize;
Java_sun_nio_ch_KQueue_identOffset;
Java_sun_nio_ch_KQueue_filterOffset;
Java_sun_nio_ch_KQueue_flagsOffset;
Java_sun_nio_ch_KQueuePort_socketpair;
Java_sun_nio_ch_KQueuePort_interrupt;
Java_sun_nio_ch_KQueuePort_drain1;
Java_sun_nio_ch_KQueuePort_close0;
Java_sun_nio_ch_NativeThread_current;
Java_sun_nio_ch_NativeThread_init;
Java_sun_nio_ch_NativeThread_signal;
Java_sun_nio_ch_Net_canIPv6SocketJoinIPv4Group0;
Java_sun_nio_ch_Net_canJoin6WithIPv4Group0;
Java_sun_nio_ch_Net_socket0;
Java_sun_nio_ch_Net_bind0;
Java_sun_nio_ch_Net_connect0;
Java_sun_nio_ch_Net_listen;
Java_sun_nio_ch_Net_localPort;
Java_sun_nio_ch_Net_localInetAddress;
Java_sun_nio_ch_Net_getIntOption0;
Java_sun_nio_ch_Net_setIntOption0;
    Java_sun_nio_ch_Net_initIDs;
Java_sun_nio_ch_Net_isIPv6Available0;
Java_sun_nio_ch_Net_joinOrDrop4;
Java_sun_nio_ch_Net_blockOrUnblock4;
Java_sun_nio_ch_Net_joinOrDrop6;
Java_sun_nio_ch_Net_blockOrUnblock6;
Java_sun_nio_ch_Net_setInterface4;
Java_sun_nio_ch_Net_getInterface4;
Java_sun_nio_ch_Net_setInterface6;
Java_sun_nio_ch_Net_getInterface6;
Java_sun_nio_ch_Net_shutdown;
  Java_sun_nio_ch_Net_isExclusiveBindAvailable;
  Java_sun_nio_ch_PollArrayWrapper_interrupt;
  Java_sun_nio_ch_PollArrayWrapper_poll0;
  Java_sun_nio_ch_ServerSocketChannelImpl_accept0;
  Java_sun_nio_ch_ServerSocketChannelImpl_initIDs;
  Java_sun_nio_ch_SocketChannelImpl_checkConnect;
Java_sun_nio_ch_SocketChannelImpl_sendOutOfBandData;
Java_sun_nio_ch_UnixAsynchronousServerSocketChannelImpl_accept0;
Java_sun_nio_ch_UnixAsynchronousServerSocketChannelImpl_initIDs;
Java_sun_nio_ch_UnixAsynchronousServerSocketChannelImpl_checkConnect;
Java_sun_nio_fs_BsdNativeDispatcher_initIDs;
Java_sun_nio_fs_BsdNativeDispatcher_getfsstat;
Java_sun_nio_fs_BsdNativeDispatcher_fsstatEntry;
Java_sun_nio_fs_BsdNativeDispatcher_endfsstat;
Java_sun_nio_fs_UnixNativeDispatcher_init;
Java_sun_nio_fs_UnixNativeDispatcher_getcwd;
Java_sun_nio_fs_UnixNativeDispatcher_strerror;
Java_sun_nio_fs_UnixNativeDispatcher_dup;
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Java_sun_nio_fs_UnixNativeDispatcher_futimes;
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Java_sun_nio_fs_UnixNativeDispatcher_openat0;
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Java_sun_nio_fs_UnixNativeDispatcher_fclose;
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 */
package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a <code>java.io.FilePermission</code> object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * <code>java.lang.RuntimePermission</code>,
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * <p>An important method that must be implemented by each subclass is
 * the <code>implies</code> method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 *
 * Permission objects are similar to String objects in that they
 * are immutable once they have been created. Subclasses should not
 * provide methods that can change the state of a permission
 * once it has been created.
 *
 * @see Permissions
 * @see PermissionCollection
 *
 *
 * @author Marianne Mueller
 * @author Roland Schemers
 */

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -563657022223156674L;

    // Additional implementation details here
}
private String name;

/**
 * Constructs a permission with the specified name.
 * @param name name of the Permission object being created.
 */
public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The <code>SecurityManager.checkPermission</code> method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws
 * a SecurityException.
 * @param object the object being guarded (currently ignored).
 * @throws SecurityException if a security manager exists and its
 * <code>checkPermission</code> method doesn't allow access.
 * @see Guard
 * @see GuardedObject
 * @see SecurityManager#checkPermission
 */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * @param object the object the implicit check should be performed on
 * @return true if the specified permission is implied by this action, false otherwise.
 * @throws SecurityException if a security manager exists and its
 * <code>checkPermission</code> method doesn't allow access.
 * @see Guard
 * @see GuardedObject
 * @see SecurityManager#checkPermission
 */
public boolean implies(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
    return true; // or false depending on the implementation
}
public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <p>
 * Do not use the <code>equals</code> method for making access control
decisions; use the <code>implies</code> method.
 * 
 * @param obj the object we are testing for equality with this object.
 * 
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <p>
 * The required <code>hashCode</code> behavior for Permission Objects is
 * the following: <p>
 *  <ul>
 *  <li>Whenever it is invoked on the same Permission object more than
 *   once during an execution of a Java application, the
 *   <code>hashCode</code> method
 *   must consistently return the same integer. This integer need not
 *   remain consistent from one execution of an application to another
 *   execution of the same application. <p>
 *  <li>If two Permission objects are equal according to the
 *   <code>equals</code> method, then calling the <code>hashCode</code> method on each of the
 *   two Permission objects must produce the same integer result.
 *  </ul>
 * 
 * @return a hash code value for this object.
 */

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a <code>java.io.FilePermission</code>,
 * the name will be a pathname.
 */
public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 *
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 *
 * both return
 * "read,write" when the getActions method is invoked.
 *
 * @return the actions of this Permission.
 *
 */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the PermissionCollection.implies method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 *
 */

public PermissionCollection newPermissionCollection() {
    return null;
}
/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('ClassName' "name" "actions"), or
 * ('ClassName' "name") if actions list is null or empty.
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}

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# questions.
#
# Define public interface for libawt.so on Bsd.
# Bsd port does not use mawt, all public symbols are in libawt.so
SUNWprivate_1.1 {
  global:
  JNI_OnLoad;

Java_java_awt_CheckboxMenuItem_initIDs;
Java_java_awt_Color_initIDs;
Java_java_awt_FontMetrics_initIDs;
Java_java_awt_image_BufferedImage_initIDs;
Java_sun_awt_image_DataBufferNative_getElem;
Java_sun_awt_image_DataBufferNative_setElem;
Java_java_awt_image_ColorModel_initIDs;
Java_java_awt_image_ComponentSampleModel_initIDs;
Java_java_awt_image_IndexColorModel_initIDs;
Java_java_awt_image_Kernel_initIDs;
Java_java_awt_image_Raster_initIDs;
Java_java_awt_image_SampleModel_initIDs;
Java_java_awt_Label_initIDs;
Java_java_awt_MenuBar_initIDs;
Java_java_awt_ScrollPaneAdjustable_initIDs;
Java_java_awt_Toolkit_initIDs;
Java_java_awt TrayIcon_initIDs;
  
Java_sun_awt_DebugSettings_setCTracingOn__Z;
Java_sun_awt_DebugSettings_setCTracingOn__ZLjava_lang_String_2;
Java_sun_awt_DebugSettings_setCTracingOn__ZLjava_lang_String_2I;
Java_sun_awt_image_ByteComponentRaster_initIDs;
Java_sun_awt_image_GifImageDecoder_initIDs;
Java_sun_awt_image_GifImageDecoder_parseImage;
Java_sun_awt_image_Imagerendaritative_initIDs;
Java_sun_awt_image_Imagerendaritative_setDiffICM;
Java_sun_awt_image_Imagerendaritative_setICMpixels;
Java_sun_awt_image_ImagingLib_convolveBI;
Java_sun_awt_image_ImagingLib_convolveRaster;
Java_sun_awt_image_ImagingLib_init;
Java_sun_awt_image_ImagingLib_transformBI;
Java_sun_awt_image_ImagingLib_transformRaster;
Java_sun_awt_image_IntegerComponentRaster_initIDs;
Java_sun_awt_image_ShortComponentRaster_initIDs;
Java_sun_java2d_pipe_SpanClipRenderer_eraseTile;
Java_sun_java2d.pipe_SpanClipRenderer_fillTile;
Java_sun_java2d_pipe_ShapespanIterator_addSegment;
Java_sun_java2d_pipe_ShapespanIterator_moveTo;
Java_sun_java2d_pipe_ShapespanIterator_lineTo;
Java_sun_java2d_pipe_ShapespanIterator_quadTo;
Java_sun_java2d_pipe_ShapespanIterator_curveTo;
Java_sun_java2d_pipe_ShapespanIterator_closePath;
Java_sun_java2d_pipe_ShapespanIterator_pathDone;
Java_sun_java2d_pipe_ShapespanIterator_getNativeConsumer;
Java_sun_java2d_pipe_ShapeSpanIterator_appendPoly;
Java_sun_java2d_pipe_ShapeSpanIterator_dispose;
Java_sun_java2d_pipe_ShapeSpanIterator_getNativeIterator;
Java_sun_java2d_pipe_ShapeSpanIterator_getPathBox;
Java_sun_java2d_pipe_ShapeSpanIterator_initIDs;
Java_sun_java2d_pipe_ShapeSpanIterator_intersectClipBox;
Java_sun_java2d_pipe_ShapeSpanIterator_nextSpan;
Java_sun_java2d_pipe_ShapeSpanIterator_setNormalize;
Java_sun_java2d_pipe_ShapeSpanIterator_setOutputAreaXYXY;
Java_sun_java2d_pipe_ShapeSpanIterator_setRule;
Java_sun_java2d_pipe_ShapeSpanIterator_skipDownTo;
Java_java_awt_Dimension_initIDs;
Java_java_awt_event_MouseEvent_initIDs;
Java_java_awt_image_DataBufferInt_initIDs;
Java_java_awt_image_SinglePixelPackedSampleModel_initIDs;
Java_java_awt_Rectangle_initIDs;
Java_sun_awt_image_BufImgSurfaceData_getSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_initIDs;
Java_sun_awt_image_BufImgSurfaceData_initRaster;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
  Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_getBufferedRaster;
Java_sun_awt_image_BufImgSurfaceData_getByteRaster;
Java_sun_java2d_SurfaceData_initIDs;
Java_sun_java2d_SurfaceData_isOpaqueGray;
Java_sun_java2d_Disposer_initIDs;
Java_sun_java2d_DefaultDisposerRecord_invokeNativeDispose;
Java_sun_java2d_loops_BlitBg_BlitBg;
Java_sun_java2d_loops_Blit_Blit;
Java_sun_java2d_loops_ScaledBlit_Scale;
Java_sun_java2d_loops_DrawLine_DrawLine;
Java_sun_java2d_loops_DrawPolygons_DrawPolygons;
Java_sun_java2d_loops_DrawRect_DrawRect;
Java_sun_java2d_loops_FillRect_FillRect;
Java_sun_java2d_loops_FillSpans_FillSpans;
Java_sun_java2d_loops_VirtualSurfaceData_VirtualSurfaceData;
Java_sun_java2d_loops_GraphicsPrimitiveMgr_initIDs;
Java_sun_java2d_loops_GraphicsPrimitiveMgr_registerNativeLoops;
Java_sun_java2d_loops_MaskBlit_MaskBlit;
Java_sun_java2d_loops_MaskFill_MaskFill;
Java_sun_java2d_loops_MaskFill_DrawAAPgram;
Java_sun_java2d_loops_MaskFill_DrawAAPgram;
  Java_sun_java2d_pipe_BufferedRenderPipe_fillSpans;
Java_sun_java2d_pipe_SpanClipRenderer_initIDs;
sun_awt_image_GifImageDecoder_initIDs;

# libmawt entry points
SurfaceData_InitOps;
SurfaceData_ThrowInvalidPipeException;
    Region_GetBounds;
    Region_GetInfo;
    Region_StartIteration;
    Region_CountIterationRects;
    Region_NextIteration;
    Region_EndIteration;
    GrPrim_CompGetXorInfo;
    GrPrim_CompGetAlphaInfo;
img_makePalette;
initInverseGrayLut;
make_dither_arrays;
make_uns_ordered_dither_array;

# variables exported to libmawt
    std_img_oda_red;
    std_img_oda_blue;
    std_img_oda_green;
    std_odas_computed;
g_CMpDataID;
colorValueID;
    jvm;

# CDE private entry point
    # This is in awt_LoadLibrary.c and falls through to libmawt.
    # Evidently CDE needs this for backward compatability.
    Java_sun_awt_motif_XsessionWMcommand;

# Java Plugin
    # This is in awt_LoadLibrary.c and falls through to libmawt.
    # Evidently plugin needs this for backward compatability.
    getAwtLockFunctions;
    getAwtData;
    getAwtDisplay;

# libfontmanager entry points
    AWTIsHeadless;
    GrPrim_Sg2dGetCompInfo;
    GrPrim_Sg2dGetClip;
    GetNativePrim;
    SurfaceData_IntersectBounds;
    SurfaceData_GetOps;
    Disposer_AddRecord;
    GrPrim_Sg2dGetEaRGB;
    GrPrim_Sg2dGetPixel;
    GrPrim_Sg2dGetLCDTextContrast;
#Java_sun_awt_motif_MComponentPeer_pGetLocationOnScreen;
#Java_sun_awt_motif_MComponentPeer_pGetLocationOnScreen2;
#Java_sun_awt_motif_MComponentPeer_pHide;
#Java_sun_awt_motif_MComponentPeer_pInitialize;
#Java_sun_awt_motif_MComponentPeer_pMakeCursorVisible;
#Java_sun_awt_motif_MComponentPeer_pReshape;
#Java_sun_awt_motif_MComponentPeer_pShow;
#Java_sun_awt_motif_MComponentPeer_removeNativeDropTarget;
#Java_sun_awt_motif_MComponentPeer_swapBuffers;
#Java_sun_awt_motif_MComponentPeer_pSetBackgroundColor;
#Java_sun_awt_motif_MComponentPeer_pSetFont;
    #Java_sun_awt_motif_MComponentPeer_processSynchronousLightWeightTransfer;
#Java_sun_awt_motif_MCheckboxMenuItemPeer_getState;
#Java_sun_awt_motif_MComponentPeer_pGetFocus;
#Java_sun_awt_motif_MComponentPeer_pSetForeground;
#Java_sun_awt_motif_MDragSourceContextPeer_startDrag;
#Java_sun_awt_motif_MDragSourceContextPeer_setNativeCursor;
#Java_sun_awt_motif_MDropTargetContextPeer_addTransfer;
#Java_sun_awt_motif_MDropTargetContextPeer_dropDone;
#Java_sun_awt_motif_MDropTargetContextPeer_startTransfer;
#Java_sun_awt_motif_MEmbeddedFramePeer_NEFcreate;
#Java_sun_awt_motif_MEmbeddedFramePeer_pShowImpl;
#Java_sun_awt_motif_MEmbeddedFramePeer_pReshapePrivate;
#Java_sun_awt_motif_MEmbeddedFramePeer_getUserPrivate;
#Java_sun_awt_motif_MFramePeer_pSetIconImage_3B_3I_3SII;
#Java_sun_awt_motif_MGlobalCursorManager_cacheInit;
#Java_sun_awt_motif_MGlobalCursorManager_findComponentAt;
#Java_sun_awt_motif_MGlobalCursorManager_findHeavyweightUnderCursor;
#Java_sun_awt_motif_MGlobalCursorManager_getCursorPos;
#Java_sun_awt_motif_MGlobalCursorManager_getLocationOnScreen;
#Java_sun_awt_motif_MTextAreaPeer_getSelectionEnd;
#Java_sun_awt_motif_MTextAreaPeer_getSelectionStart;
#Java_sun_awt_motif_MTextAreaPeer_getText;
#Java_sun_awt_motif_MTextAreaPeer_insert;
#Java_sun_awt_motif_MTextAreaPeer_pMakeCursorVisible;
#Java_sun_awt_motif_MTextAreaPeer_pSetEditable;
#Java_sun_awt_motif_MTextAreaPeer_pShow2;
#Java_sun_awt_motif_MTextAreaPeer_replaceRange;
#Java_sun_awt_motif_MTextAreaPeer_select;
#Java_sun_awt_motif_MTextAreaPeer_setCaretPosition;
#Java_sun_awt_motif_MTextAreaPeer_setFont;
#Java_sun_awt_motif_MTextAreaPeer_setText;
#Java_sun_awt_motif_MTextAreaPeer_setTextBackground;
#Java_sun_awt_motif_MTextFieldPeer_initIDs;
#Java_sun_awt_motif_MTextFieldPeer_pCreate;
#Java_sun_awt_motif_MTextFieldPeer_getCaretPosition;
#Java_sun_awt_motif_MTextFieldPeer_getSelectionEnd;
#Java_sun_awt_motif_MTextFieldPeer_getSelectionStart;
#Java_sun_awt_motif_MTextFieldPeer_getText;
#Java_sun_awt_motif_MTextFieldPeer_insertReplaceText;
#Java_sun_awt_motif_MTextFieldPeer_preDispose;
#Java_sun_awt_motif_MTextFieldPeer_pSetEditable;
#Java_sun_awt_motif_MTextFieldPeer_pSetCaretPosition;
#Java_sun_awt_motif_MTextFieldPeer_getEchoChar;
#Java_sun_awt_motif_MTextFieldPeer_setFont;
#Java_sun_awt_motif_MTextFieldPeer_setText;
Java_sun_awt_motif_MToolkit_bEEP;
Java_sun_awt_motif_MToolkit_getLockingKeyStateNative;
Java_sun_awt_motif_MToolkit_getMulticlickTime;
Java_sun_awt_motif_MToolkit_getNumMouseButtons;
Java_sun_awt_motif_MToolkit_getScreenHeight;
Java_sun_awt_motif_MToolkit_getScreenResolution;
Java_sun_awt_motif_MToolkit_getScreenWidth;
Java_sun_awt_motif_MToolkit_init;
Java_sun_awt_motif_MToolkit_isDynamicLayoutSupportedNative;
Java_sun_awt_motif_MToolkit_isFrameStateSupported;
Java_sun_awt_motif_MToolkit_loadSystemColors;
Java_sun_awt_motif_MToolkit_makeColorModel;
Java_sun_awt_motif_MToolkit_run;
Java_sun_awt_motif_MToolkit_sync;
Java_sun_awt_motif_MToolkit_isAlwaysOnTopSupported;
Java_sun_awt_motif_MWindowAttributes_initIDs;
#Java_sun_awt_motif_MWindowPeer_pDispose;
#Java_sun_awt_motif_MWindowPeer_pHide;
#Java_sun_awt_motif_MWindowPeer_pReshape;
#Java_sun_awt_motif_MWindowPeer_pSetTitle;
#Java_sun_awt_motif_MWindowPeer_pShow;
#Java_sun_awt_motif_MWindowPeer_setResizable;
#Java_sun_awt_motif_MWindowPeer_toBack;
#Java_sun_awt_motif_MWindowPeer_addTextComponentNative;
#Java_sun_awt_motif_MWindowPeer_getState;
#Java_sun_awt_motif_MWindowPeer_pSetIMMOption;
#Java_sun_awt_motif_MWindowPeer_pSetMenuBar;
#Java_sun_awt_motif_MWindowPeer_pShowModal;
#Java_sun_awt_motif_MWindowPeer_removeTextComponentNative;
#Java_sun_awt_motif_MWindowPeer_setSaveUnder;
#Java_sun_awt_motif_MWindowPeer_setState;
#Java_sun_awt_motif_MWindowPeer_resetTargetGC;
#Java_sun_awt_motif_MWindowPeer_registerX11DropTarget;
#Java_sun_awt_motif_MWindowPeer_unregisterX11DropTarget;
#Java_sun_awt_motif_MWindowPeer_updateAlwaysOnTop;
#Java_sun_awt_motif_X11CustomCursor_cacheInit;
#Java_sun_awt_motif_X11CustomCursor_createCursor;
#Java_sun_awt_motif_X11CustomCursor_queryBestCursor;
Java_sun_awt_motif_X11FontMetrics_bytesWidth;
Java_sun_awt_motif_X11FontMetrics_getMFICharsWidth;
Java_sun_awt_motif_X11FontMetrics_init;
Java_sun_awt_X11InputMethod_disposeXIC;
Java_sun_awt_X11InputMethod_isCompositionEnabledNative;
Java_sun_awt_X11InputMethod_resetXIC;
Java_sun_awt_X11InputMethod_setCompositionEnabledNative;
Java_sun_awt_X11InputMethod_turnoffStatusWindow;
#Java_sun_awt_motif_MInputMethod_openXIMNative;
#Java_sun_awt_motif_MInputMethod_configureStatusAreaNative;
#Java_sun_awt_motif_MInputMethod_createXICNative;
#Java_sun_awt_motif_MInputMethod_reconfigureXICNative;
#Java_sun_awt_motif_MInputMethod_setXICFocusNative;
#Java_sun_awt_motif_X11Clipboard_getClipboardData;
#Java_sun_awt_motif_X11Clipboard_getClipboardFormats;
#Java_sun_awt_motif_X11Clipboard_registerClipboardViewer;
#Java_sun_awt_motif_X11Clipboard_unregisterClipboardViewer;
#Java_sun_awt_motif_X11Selection_init;
#Java_sun_awt_motif_X11Selection_pGetSelectionOwnership;
#Java_sun_awt_motif_X11Selection_clearNativeContext;
Java_sun_awt_SunToolkit_closeSplashScreen;
Java_sun_awt_PlatformFont_initIDs;
Java_sun_awt_X11GraphicsConfig_init;
Java_sun_awt_X11GraphicsConfig_dispose;
Java_sun_awt_X11GraphicsConfig_pGetBounds;
Java_sun_awt_X11GraphicsConfig_getNumColors;
Java_sun_awt_X11GraphicsConfig_getXResolution;
Java_sun_awt_X11GraphicsConfig_getYResolution;
Java_sun_awt_X11GraphicsConfig_isTranslucencyCapable;
Java_sun_awt_X11GraphicsDevice_isDBESupported;
Java_sun_awt_X11GraphicsDevice_getDisplay;
Java_sun_awt_X11GraphicsDevice_getDoubleBufferVisuals;
Java_sun_awt_X11GraphicsDevice_getNumConfigs;
Java_sun_awt_X11GraphicsDevice_initIDs;
    Java_sun_awt_X11GraphicsDevice_initXrandrExtension;
    Java_sun_awt_X11GraphicsDevice_enterFullScreenExclusive;
    Java_sun_awt_X11GraphicsDevice_exitFullScreenExclusive;
    Java_sun_awt_X11GraphicsDevice_getCurrentDisplayMode;
    Java_sun_awt_X11GraphicsDevice_enumDisplayModes;
    Java_sun_awt_X11GraphicsDevice_configDisplayMode;
    Java_sun_awt_X11GraphicsDevice_resetNativeData;
Java_sun_awt_X11GraphicsEnvironment_checkShmExt;
Java_sun_awt_X11GraphicsEnvironment_getDefaultScreenNum;
Java_sun_awt_X11GraphicsEnvironment_getDisplayString;
Java_sun_awt_X11GraphicsEnvironment_getNumScreens;
Java_sun_awt_X11GraphicsEnvironment_initDisplay;
Java_sun_awt_X11GraphicsEnvironment_pRunningXinerama;
Java_sun_awt_X11GraphicsEnvironment_getXineramaCenterPoint;
Java_sun_awt_X11GraphicsEnvironment_initXRender;

Java_java_awt_AWTEvent_initIDs;
Java_java_awt_Button_initIDs;
Java_java_awt_Container_initIDs;
Java_java_awt_Cursor_finalizeImpl;
Java_java_awt_Cursor_initIDs;
Java_java_awt_Event_initIDs;
Java_java_awt_event_InputEvent_initIDs;
Java_java_awt_event_KeyEvent_initIDs;
Java_java_awtFileDialog_initIDs;
Java_java_awt_Frame_initIDs;
Java_java_awtInsets_initIDs;
Java_java_awt_TextField_initIDs;
Java_java_awt_Window_initIDs;
    #Java_sun_awt_motif_MCheckboxPeer_getIndicatorSize;
    #Java_sun_awt_motif_MCheckboxPeer_getSpacing;
    #Java_sun_awt_motif_MChoicePeer_freeNativeData;
    #Java_sun_awt_motif_MComponentPeer_getComponents_1NoClientCode;
    #Java_sun_awt_motif_MComponentPeer_getParent_1NoClientCode;
    #Java_sun_awt_motif_MComponentPeer_initIDs;
    #Java_sun_awt_motif_MComponentPeer_nativeHandleEvent;
    #Java_sun_awt_motif_MComponentPeer_pSetCursor;
    #Java_sun_awt_motif_MComponentPeer_pSetInnerForeground;
    #Java_sun_awt_motif_MComponentPeer_pSetScrollBarBackground;
    #Java_sun_awt_motif_MComponentPeer_setTargetBackground;
    #Java_sun_awt_motif_MDataTransferer_dragQueryFile;
    #Java_sun_awt_motif_MDataTransferer_getAtomForTarget;
    #Java_sun_awt_motif_MDataTransferer_getTargetNameForAtom;
#Java_sun_awt_motif_MFileDialogPeer_insertReplaceFileDialogText;
Java_sun_awt_motif_MFontPeer_initIDs;
#Java_sun_awt_motif_MListPeer_setBackground;
#Java_sun_awt_motif_MMenuBarPeer_initIDs;
#Java_sun_awt_motif_MMenuBarPeer_pDispose;
#Java_sun_awt_motif_MMenuItemPeer_getParent_1NoClientCode;
#Java_sun_awt_motif_MMenuItemPeer_initIDs;
#Java_sun_awt_motif_MMenuPeer_pSetShortcut;
#Java_sun_awt_motif_MPopupMenuPeer_initIDs;
#Java_sun_awt_motif_MScrollBarPeer_initIDs;
#Java_sun_awt_motif_MScrollPanePeer_initIDs;
#Java_sun_awt_motif_MTextAreaPeer_pSetCursor;
Java_sun_awt_motif_MToolkit_shutdown;
#Java_sun_awt_motif_MWindowPeer_initIDs;
#Java_sun_awt_motif_MWindowPeer_pCreate;
#Java_sun_awt_motif_MWindowPeer_wrapInSequenced;
Java_sun_awt_motif_X11FontMetrics_initIDs;
#Java_sun_awt_X11InputMethod_initIDs;
Java_sun_awt_motif_X11OffScreenImage_updateBitmask;
#Java_sun_awt_motif_X11Selection_initIDs;
Java_sun_awt_motif_MToolkitThreadBlockedHandler_enter;
Java_sun_awt_motif_MToolkitThreadBlockedHandler_exit;
Java_sun_awt_X11GraphicsConfig_init;
Java_sun_awt_X11GraphicsConfig_initIDs;
Java_sun_awt_X11GraphicsConfig_makeColorModel;
Java_sun_awt_X11GraphicsDevice_getConfigVisualId;
Java_sun_awt_X11PMBlitLoops_Blit;
Java_sun_awt_X11PMBlitBgLoops_nativeBlitBkg;
Java_sun_awt_X11Renderer_devFillSpans;
Java_sun_awt_X11Renderer_doDrawArc;
Java_sun_awt_X11Renderer_doDrawLine;
Java_sun_awt_X11Renderer_doDrawOval;
Java_sun_awt_X11Renderer_doDrawPoly;
Java_sun_awt_X11Renderer_doDrawRect;
Java_sun_awt_X11Renderer_doDrawRoundRect;
Java_sun_awt_X11Renderer_doFillArc;
Java_sun_awt_X11Renderer_doFillFillOval;
Java_sun_awt_X11Renderer_doFillOval;
Java_sun_awt_X11Renderer_doFillPoly;
Java_sun_awt_X11Renderer_doFillRect;
Java_sun_awt_X11Renderer_doFillRoundRect;
Java_sun_awt_X11Renderer_devCopyArea;
Java_sun_awt_X11SurfaceData_initIDs;
Java_sun_awt_X11SurfaceData_initOps;
Java_sun_awt_X11SurfaceData_initSurface;
Java_sun_awt_X11SurfaceData_isDgaAvailable;
Java_sun_awt_X11SurfaceData_setInvalid;
Java_sun_awt_X11SurfaceData_flushNativeSurface;

#Java_sun_awt_motif_MEembedCanvasPeer_initXEmbedServer;

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#Java_sun_awt_motif_MEmbedCanvasPeer_destroyXEmbedServer;
#Java_sun_awt_motif_MEmbedCanvasPeer_isXEmbedActive;
#Java_sun_awt_motif_MEmbedCanvasPeer_initDispatching;
#Java_sun_awt_motif_MEmbedCanvasPeer_endDispatching;
#Java_sun_awt_motif_MEmbedCanvasPeer_childDestroyed;
#Java_sun_awt_motif_MEmbedCanvasPeer_getEmbedPreferredSize;
#Java_sun_awt_motif_MEmbedCanvasPeer_getEmbedMinimumSize;
#Java_sun_awt_motif_MEmbedCanvasPeer_getClientBounds;
#Java_sun_awt_motif_MEmbedCanvasPeer_notifyChildEmbedded;
#Java_sun_awt_motif_MEmbedCanvasPeer_detachChild;
#Java_sun_awt_motif_MEmbedCanvasPeer_forwardKeyEvent;
#Java_sun_awt_motif_MEmbedCanvasPeer_getAWTKeyCodeForKeySym;
#Java_sun_awt_motif_MEmbedCanvasPeer_sendMessage__I;
#Java_sun_awt_motif_MEmbedCanvasPeer_sendMessage__IJJJ;
#Java_sun_awt_motif_MEmbedCanvasPeer_getWindow;
#Java_sun_awt_motif_MEmbedCanvasPeer_forwardEventToEmbedded;
#Java_sun_awt_motif_GrabbedKey_initKeySymAndModifiers;
#Java_sun_awt_motif_MEmbeddedFramePeer_traverseOut;

awt_display;
awt_lock;
awt_Lock;
awt_Unlock;
    awt_GetDrawingSurface;
    awt_FreeDrawingSurface;
    awt_GetComponent;

X11SurfaceData_GetOps;
getDefaultConfig;
    Java_sun_font_FontConfigManager_getFontConfig;
    Java_sun_font_FontConfigManager_getFontConfigAASettings;
Java_sun_awt_X11FontManager_getFontPathNative;
Java_sun_font_SunFontManager_populateFontFileNameMap;

# CDE private entry point
Java_sun_awt_motif_XsessionWMcommand;

# Java Plugin
getAwtLockFunctions;
getAwtData;
getAwtDisplay;

# libfontmanager entry points
AWTIsHeadless;
AWTCountFonts;
    AWTLoadFont;
    AWTFreeFont;
    AWTFontMinByte1;
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AWTFontMaxByte1;
AWTFontMinCharOrByte2;
AWTFontMaxCharOrByte2;
AWTFontDefaultChar;
AWTFontPerChar;
AWTFontMaxBounds;
AWTFontTextExtents16;
AWTFreeChar;
AWTFontGenerateImage;
AWTCharAdvance;
AWTCharLBearing;
AWTCharRBearing;
AWTCharAscent;
AWTCharDescent;
AWTDrawGlyphList;
AccelGlyphCache_RemoveAllCellInfos;

local:
*;
};

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#
#
# Makefile to specify compiler flags for programs and libraries
# targeted to BSD. Should not contain any rules.
#
# Warning: the following variables are overridden byDefs.gmk. Set
# values will be silently ignored:
# CFLAGS        (set $(OTHER_CFLAGS) instead)
# CPPFLAGS      (set $(OTHER_CPPFLAGS) instead)
# CXXFLAGS      (set $(OTHER_CXXFLAGS) instead)
# LDFLAGS       (set $(OTHER_LDFLAGS) instead)
# LDLIBS        (set $(EXTRA_LIBS) instead)
# LDLIBS_COMMON (set $(EXTRA_LIBS) instead)

# Get shared JDK settings
include $(BUILDDIR)/common/shared/Defs.gmk

ifndef PLATFORM_SRC
PLATFORM_SRC = $(TOPDIR)/src/solaris
endif # PLATFORM_SRC

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# by Oracle in the LICENSE file that accompanied this code.
#
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# Definitions for Bsd.

# Default for COMPILER_WARNINGS_FATAL on Bsd (C & C++ compiler warnings)
ifndef COMPILER_WARNINGS_FATAL
    COMPILER_WARNINGS_FATAL=false
endif

# Bsd should use parallel compilation for best build times
ifndef COMPILE_APPROACH
    COMPILE_APPROACH = parallel
endif

# Indication that we are doing an incremental build.
# This may trigger the creation of make depend files.
ifndef INCREMENTAL_BUILD
    INCREMENTAL_BUILD = false
endif

# FullPath just makes sure it never ends with a / and no duplicates
define FullPath
    $(shell cd $1 2> $(DEV_NULL) && pwd)
endef

# OptFullPath: Absolute path name of a dir that might not initially exist.
define OptFullPath
    $(shell if [ "$1" != "" -a -d "$1" ]; then (cd $1 && pwd); else echo "$1"; fi)
endef

# Location on system where jdk installs might be
USRJDKINSTANCES_PATH =$(PACKAGE_PATH)

# UNIXCOMMAND_PATH: path to where the most common Unix commands are.
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifeq "$(origin ALT_UNIXCOMMAND_PATH)" "undefined"
  UNIXCOMMAND_PATH :=$(call PrefixPath, $(ALT_UNIXCOMMAND_PATH))
else
  UNIXCOMMAND_PATH = /bin/
endif

# USRBIN_PATH: path to where the most common Unix commands are.
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifeq "$(origin ALT_USRBIN_PATH)" "undefined"
  USRBIN_PATH :=$(call PrefixPath, $(ALT_USRBIN_PATH))
else
  USRBIN_PATH = /usr/bin/
endif

# UNIXCCS_PATH: path to where the Solaris ported UNIX commands can be found
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifeq "$(origin ALT_UNIXCCS_PATH)" "undefined"
  UNIXCCS_PATH :=$(call PrefixPath, $(ALT_UNIXCCS_PATH))
else
  UNIXCCS_PATH = /usr/ccs/bin/
endif

# SLASH_JAVA: location of all network accessable files
ifdef ALT_SLASH_JAVA
  SLASH_JAVA := $(ALT_SLASH_JAVA)
else
  SLASH_JAVA := $(call DirExists, /java, /java, NOT-SET)
endif

# JDK_DEVTOOLS_DIR: common path for all the java devtools
ifdef ALT_JDK_DEVTOOLS_DIR
  JDK_DEVTOOLS_DIR = $(ALT_JDK_DEVTOOLS_DIR)
else
  JDK_DEVTOOLS_DIR = $(SLASH_JAVA)/devtools
endif

# DEVTOOLS_PATH: for other tools required for building (such as zip, etc.)
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifeq "$(origin ALT_DEVTOOLS_PATH)" "undefined"
  DEVTOOLS_PATH := $(call PrefixPath, $(ALT_DEVTOOLS_PATH))
else
  DEVTOOLS_PATH = $(PACKAGE_PATH)/bin/
endif

# _BOOTDIR1: First choice for a Bootstrap JDK, previous released JDK.
# _BOOTDIR2: Second choice
ifndef ALT_BOOTDIR
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package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */
public interface Permission {

/**
 * Returns true if the object passed matches the permission represented
 */

* in this interface.
* 
* @param another the Permission object to compare with.
* 
* @return true if the Permission objects are equal, false otherwise
*/
public boolean equals(Object another);

/**
* Prints a string representation of this permission.
* 
* @return the string representation of the permission.
*/
public String toString();
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*/

/**
 *
 */

import java.rmi.Remote;
public interface Legal extends Remote { }

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import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {}

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

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# questions.
#
# Define public interface.

SUNWprivate_1.1 {
    global:
        Java_sun_tools_attach_BsdVirtualMachine_checkPermissions;
        Java_sun_tools_attach_BsdVirtualMachine_close;
        Java_sun_tools_attach_BsdVirtualMachine_connect;
        Java_sun_tools_attach_BsdVirtualMachine_open;
        Java_sun_tools_attach_BsdVirtualMachine_sendQuitTo;
        Java_sun_tools_attach_BsdVirtualMachine_socket;
        Java_sun_tools_attach_BsdVirtualMachine_read;
        Java_sun_tools_attach_BsdVirtualMachine_write;
        Java_sun_tools_attach_BsdVirtualMachine_createAttachFile;
    local:
        *
};

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include/GL/wglxext.h :

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

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

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

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

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

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The End

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1.1512 entity-framework 4.5.50709
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# Contributions to the urllib3 project

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* 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>
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  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

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  * 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

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  * Fixed a race condition

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  * 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

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  * 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 <abacabadabacaba@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.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
* Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>

* Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

### 1.1514 tcp-dump 3.5.6

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### 1.1515 curl 7.47.0 1ubuntu2.16

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1.1519 syslog-ng 3.5.6 2.1
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This is the Debian GNU/Linux packaged version of the GNU core
utilities.

This package is maintained by Michael Stone <mstone@debian.org> and
built from sources obtained from:

This debian package was first created by Michael Stone <mstone@debian.org>,
from coreutils 4.5.1.

Changes: 
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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1.1529 logback-core 1.1.7

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1.1530 rsync 3.1.1 3ubuntu1.3

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This is Debian's prepackaged version of Andrew Tridgell and
Paul Mackerras' rsync utility.

This package provides the rsync program, which is a replacement
for rcp that uses the rsync algorythm to transfer only the
differences between two sets of files.

This package was put together by Philip Hands <phil@hands.com>,
from sources obtained from:
http://rsync.samba.org/ftp/rsync/rsync-2.5.4.tar.gz
The current version was downloaded from:
http://rsync.samba.org/ftp/rsync/src/rsync-3.1.0.tar.gz
on 2013-09-30 by Paul Slootman <paul@debian.org>.

The changes were very minimal - merely adding support for the Debian
package maintenance scheme by adding various debian/* files.
The only significant change is passing the -4 / -6 options through to ssh.
See the debian/patches/ directory.

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1.1531 commons-cli 1.2

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@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>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec’s THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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lib/hcrypto/test_dh.c

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The full snowball package is available from
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contrib/analyzers/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers
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contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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contrib/analyzers/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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<signature of Ty Coon>, 1 April 1989
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1.1549 byte-buddy 1.6.14

1.1550 mawk 1.3.3 17ubuntu2
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1.1552 zlib 1.2.3

1.1552.1 Available under license:

/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.1553 binutils 2.26.1
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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b) 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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(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.
Dean Elsner wrote the original gas for vax.  [more details?]

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

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

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.
John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.
Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.1554 tar 1.28 2.1ubuntu0.2

1.1554.1 Available under license:

This is the Debian GNU/Linux prepackaged version of GNU tar. GNU tar, heavily based on John Gilmore's public domain version of tar, was originally written by Graham Todd. It is now maintained by Paul Eggert <eggert@twinsun.com>.

This package is maintained for Debian by Bdale Garbee <bdale@gag.com>, and was built from the sources found at:


More recently, I'm directly using the upstream source repository at

http://git.savannah.gnu.org/cgit/tar.git

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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;
}
shortrevents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRBAND 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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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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#include HAVE_SETREGID
int setresgid(gid_t gid_t, gid_t gid_t);
#endif

#include HAVE_SETRESUID
int setresuid(uid_t 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
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

1.1558 libyaml 0.1.6 3

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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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/* 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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  * /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/connection/RouteException.java
  * /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/io/FileSystem.java
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  * /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/ws/WebSocketProtocol.java
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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/http/HttpDate.java
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1.1565 sharutils 4.15.2 1ubuntu0.1

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include/GL/g1.h:

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include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h

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## Independent JPEG Group: JPEG release 6b

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jar/com/google/common/annotations/GwtCompatible.java

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1.1602 dbus-python 1.2.0-3
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1.1603 jackson-mapper-asl 1.9.13

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Found in path(s):

*/opt/ws_local/PERMITS_SQL/1078286973_1597285663.32/0/jackson-mapper-asl-1-9-13-sources-2-
jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.1604 shadow 4.2-3.1ubuntu5.3

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***************************************************************************

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1.1605 libvmtools 10.2.0 3~ubuntu0.16.04.1

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>>> cvtutf-1.4
>>> freebsd-1.72
>>> freebsd-base64-4.8
>>> unicode-5.0

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> unicode-5.0

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1.1610 jackson-dataformat-yaml 2.11.2
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
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lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
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1.1619 jackson-annotations 2.10.3

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1.1620 enum34 1.1.2-1
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Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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Date: Tue, 11 Jul 2000 19:31:34 +0100

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The 55 level includes words from Alan's 2of4brif list found in version 4.0 of his 12dicts package. Like his other stuff the 2of4brif is also in the public domain.

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The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is the public domain.

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# Contributions to the urllib3 project

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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/@WBRSRlBZDhBFXQB6/> 
  * 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 Figovskiy <boris.figovskiy@ravelosystems.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

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  * 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 <asmmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@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.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

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

---

1.1624 authbind 2.1.1+nmu1

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1.1626 ossp-uuid 1.6.2-1.5build2
1.1626.1 Available under license:

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**
** u128.c: implementation of 128-bit unsigned integer arithmetic
*/

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**
** uuid.h: library API definition
*/
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 **
 ** uuid_str.h: string formatting functions
 */

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** uuid_sha1.h: SHA-1 API definition

*/

Found in path(s):
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**
** uuid_str.c: string formatting functions
*/

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**
** uuid.c: PostgreSQL Binding (C part)
*/

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ui64.h: API declaration
/

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** uuid_time.c: Time Management
*/

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##
## uuid.pod: manual page
##
## =pod

=head1 NAME

B<OSSP uuid>- B<Universally Unique Identifier>

=head1 VERSION
B OSSP uuid is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universally Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

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

This is the ISO-C application programming interface (API) of B OSSP uuid.

=head2 UUID Binary Representation

According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is a 128 bit number defined out of 7 fields, each field a multiple of an octet in size and stored in network byte order:

```
[4]
  version
->| <--
 | |
 | [16]
[32]                      [16]      |  |time_hi
time_low                  time_mid    | _and_version
|<---------------------------->||<------------>||<------------>
| MSB                          ||              ||  |           |
| /                            ||              ||  |           |
|/                             ||              ||  |           |
+------++------++------++------++------++------++------++----+
|  15  ||  14  ||  13  ||  12  ||  11  ||  10  |####9  ||   8  |
| MSO ||      ||      ||      ||      ||      |####   ||      |
+------++------++------++------++------++------++------++----+
```

kin-4096-16-128-64
An example of a UUID binary representation is the octet stream C<0xF8 0x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>. The binary representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_BIN>.

=head2 UUID ASCII String Representation

According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is represented as an ASCII string consisting of 8 hexadecimal digits followed by a hyphen, then three groups of 4 hexadecimal digits each followed by a hyphen, then 12 hexadecimal digits. Formally, the string representation is defined by the following grammar:

```yaml
uuid                   = <time_low> "-" <time_mid> "-" <time_high_and_version> "-" <clock_seq_high_and_reserved> "-" <clock_seq_low> "-" <node>
  time_low             = 4*<hex_octet>
  time_mid             = 2*<hex_octet>
  time_high_and_version = 2*<hex_octet>
  clock_seq_high_and_reserved = <hex_octet>
  clock_seq_low        = <hex_octet>
  node                 = 6*<hex_octet>
  hex_octet            = <hex_digit> <hex_digit>
  hex_digit            = "0"|"1"|"2"|"3"|"4"|"5"|"6"|"7"|"8"|"9"
```

---
An example of a UUID string representation is the ASCII string "C<81d4fae-7dec-11d0-a765-00a0c91e6bf6>". The string representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_STR>.

Notice: a corresponding URL can be generated out of a ASCII string representation of an UUID by prefixing with "C<urn:uuid:>", as in "C<urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

=head2 UUID Single Integer Value Representation

According to the ISO/IEC 11578:1996 and ITU-T Rec. X.667 standards, a DCE 1.1 variant UUID can be also represented as a single integer value consisting of a decimal number with up to 39 digits.

An example of a UUID single integer value representation is the decimal number "C<329800735698586629295641978511506172918>". The string representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_SIV>.

Notice: a corresponding ISO OID can be generated under the "{joint-iso-itu-t(2) uuid(25)}" arc out of a single integer value representation of a UUID by prefixing with "C<2.25.>". An example OID is "C<2.25.329800735698586629295641978511506172918>". Additionally, an URL can be generated by further prefixing with "C<urn:oid:>" as in "C<urn:oid:2.25.329800735698586629295641978511506172918>".

=head2 UUID Variants and Versions

A UUID has a variant and version. The variant defines the layout of the UUID. The version defines the content of the UUID. The UUID variant supported in B<OSSP uuid> is the DCE 1.1 variant only. The DCE 1.1 UUID variant versions supported in B<OSSP uuid> are:

=over 4

=item B<Version 1> (time and node based)

These are the classical UUIDs, created out of a 60-bit system time, a 14-bit local clock sequence and 48-bit system MAC address. The MAC address can be either the real one of a physical network interface card (NIC) or a random multi-cast MAC address. Version 1 UUIDs are usually used as one-time global unique identifiers.

=item B<Version 3> (name based, MD5)
These are UUIDs which are based on the 128-bit MD5 message digest of the concatenation of a 128-bit namespace UUID and a name string of arbitrary length. Version 3 UUIDs are usually used for non-unique but repeatable message digest identifiers.

=item B<Version 4> (random data based)

These are UUIDs which are based on just 128-bit of random data. Version 4 UUIDs are usually used as one-time local unique identifiers.

=item B<Version 5> (name based, SHA-1)

These are UUIDs which are based on the 160-bit SHA-1 message digest of the concatenation of a 128-bit namespace UUID and a name string of arbitrary length. Version 5 UUIDs are usually used for non-unique but repeatable message digest identifiers.

=head2 Nil UUID

There is a special I<Nil> UUID consisting of all octets set to zero in the binary representation. It can be used as a special UUID value which does
not conflict with real UUIDs.

=head1 APPLICATION PROGRAMMING INTERFACE

The ISO-C Application Programming Interface (API) of B/OSSP uuid> consists of the following components.

=head2 CONSTANTS

The following constants are provided:

=item B<UUID_VERSION>

The hexadecimal encoded B/OSSP uuid> version. This allows compile-time checking of the B/OSSP uuid> version. For run-time checking use B<uuid_version>() instead.

The hexadecimal encoding for a version "$I<v>,.I<r>,$I<t>$I<l>" is calculated with the B/GNU shtool> B<version> command and is (in Perl-style for concise description) "sprintf('0x%02x%02x%02x', $I<v>, $I<r>, {qw(s 9 , 2 b 1 a 0)}->[{$I<t>}, ($I<t> eq 's' ? 99 : $I<l>))", i.e., the version 0.9.6 is encoded as "0x009206".

=item B<UUID_LEN_BIN>, B<UUID_LEN_STR>, B<UUID_LEN_SIV>

The number of octets of the UUID binary and string representations. Notice that the lengths of the string representation (B<UUID_LEN_STR>) and the lengths of the single integer value representation (B<UUID_LEN_SIV>) does I<not> include the necessary C<NUL> termination character.

=item B<UUID_MAKE_V1>, B<UUID_MAKE_V3>, B<UUID_MAKE_V4>, B<UUID_MAKE_V5>, B<UUID_MAKE_MC>

The I<mode> bits for use with B<uuid_make>(). The B<UUID_MAKE_V>I<N> specify which UUID version to generate. The B<UUID_MAKE_MC> forces the use of a random multi-cast MAC address instead of the real physical MAC address in version 1 UUIDs.

=item B<UUID_RC_OK>, B<UUID_RC_ARG>, B<UUID_RC_MEM>, B<UUID_RC_SYS>, B<UUID_RC_INT>, B<UUID_RC_IMP>

The possible numerical return-codes of API functions. The C<UUID_RC_OK> indicates success, the others indicate errors. Use B<uuid_error>() to translate them into string versions.
The \texttt{fmt} formats for use with \texttt{uuid\_import()} and \texttt{uuid\_export()}. The \texttt{UUID\_FMT\_BIN} indicates the UUID binary representation (of length \texttt{UUID\_LEN\_BIN}), the \texttt{UUID\_FMT\_STR} indicates the UUID string representation (of length \texttt{UUID\_LEN\_STR}), the \texttt{UUID\_FMT\_SIV} indicates the UUID single integer value representation (of maximum length \texttt{UUID\_LEN\_SIV}) and the \texttt{UUID\_FMT\_TXT} indicates the textual description (of arbitrary length) of a UUID.

=\texttt{back}\n
=\texttt{head2} \texttt{FUNCTIONS} 

The following functions are provided:

=\texttt{over 4}\n
=\item \texttt{uuid\_rc\_t uuid\_create(uuid\_t **uuid);} 
Create a new UUID object and store a pointer to it in \texttt{**uuid}.  
A UUID object consists of an internal representation of a UUID, the internal PRNG and MD5 generator contexts, and cached MAC address and timestamp information. The initial UUID is the \texttt{Nil} UUID.

=\item \texttt{uuid\_rc\_t uuid\_destroy(uuid\_t *uuid);} 
Destroy UUID object \texttt{uuid}.

=\item \texttt{uuid\_rc\_t uuid\_clone(const uuid\_t *uuid, uuid\_t **uuid\_clone);} 
Clone UUID object \texttt{uuid} and store new UUID object in \texttt{uuid\_clone}.

=\item \texttt{uuid\_rc\_t uuid\_isnil(const uuid\_t *uuid, int *result);} 
Checks whether the UUID in \texttt{uuid} is the \texttt{Nil} UUID.  
If this is the case, it returns \texttt{true} in \texttt{**result}. Else it returns \texttt{false} in \texttt{**result}.

=\item \texttt{uuid\_rc\_t uuid\_compare(const uuid\_t *uuid\_1, const uuid\_t *uuid\_2, int *result);} 
Compares the order of the two UUIDs in \texttt{uuid\_1} and \texttt{uuid\_2} and returns the result in \texttt{**result}: \texttt{C\textless\textminus1} if \texttt{uuid\_1} is smaller than \texttt{uuid\_2}, \texttt{C\textless0} if \texttt{uuid\_1} is equal to \texttt{uuid\_2} and \texttt{C\texttt{+1}} if \texttt{uuid\_1} is greater than \texttt{uuid\_2}.

=\item \texttt{uuid\_rc\_t uuid\_import(uuid\_t *uuid, uuid\_fmt\_t fmt, const void *data\_ptr, size\_t data\_len);}
Imports a UUID $\texttt{I<uuid>}$ from an external representation of format $\texttt{I<fmt>}$.
The data is read from the buffer at $\texttt{I<data_ptr>}$ which contains at least $\texttt{I<data_len>}$ bytes.

The format of the external representation is specified by $\texttt{I<fmt>}$ and the minimum expected length in $\texttt{I<data_len>}$ depends on it. Valid values for $\texttt{I<fmt>}$ are $\texttt{B<UUID_FMT_BIN>}$, $\texttt{B<UUID_FMT_STR>}$ and $\texttt{B<UUID_FMT_SIV>}$.

Exports a UUID $\texttt{I<uuid>}$ into an external representation of format $\texttt{I<fmt>}$ Valid values for $\texttt{I<fmt>}$ are $\texttt{B<UUID_FMT_BIN>}$, $\texttt{B<UUID_FMT_STR>}$, $\texttt{B<UUID_FMT_SIV>}$ and $\texttt{B<UUID_FMT_TXT>}$.

The data is written to the buffer whose location is obtained by dereferencing $\texttt{I<data_ptr>}$ after a "cast" to the appropriate pointer-to-pointer type. Hence the generic pointer argument $\texttt{I<data_ptr>}$ is expected to be a pointer to a "pointer of a particular type", i.e., it has to be of type "\texttt{C<unsigned char **>}" for $\texttt{B<UUID_FMT_BIN>}$ and "\texttt{C<char **>}" for $\texttt{B<UUID_FMT_STR>}$, $\texttt{B<UUID_FMT_SIV>}$ and $\texttt{B<UUID_FMT_TXT>}$.

The buffer has to be room for at least $\texttt{C<*I<data_len>}$ bytes. If the value of the pointer after "casting" and dereferencing $\texttt{I<data_ptr>}$ is $\texttt{C<NULL>}$, $\texttt{I<data_ptr>}$ is ignored as input and a new buffer is allocated and returned in the pointer after "casting" and dereferencing $\texttt{I<data_ptr>}$ (the caller has to free(3) it later on).

If $\texttt{I<data_len>}$ is not $\texttt{C<NULL>}$, the number of available bytes in the buffer to be provided in $\texttt{C<*I<data_len>}$ and the number of actually written bytes are returned in $\texttt{C<*I<data_len>}$ again. The minimum required buffer length depends on the external representation as specified by $\texttt{I<fmt>}$ and is at least $\texttt{B<UUID_LEN_BIN>}$ for $\texttt{B<UUID_FMT_BIN>}$, $\texttt{B<UUID_LEN_STR>}$ for $\texttt{B<UUID_FMT_STR>}$ and $\texttt{B<UUID_LEN_SIV>}$ for $\texttt{B<UUID_FMT_SIV>}$. For $\texttt{B<UUID_FMT_TXT>}$ a buffer of unspecified length is required and hence it is recommended to allow $\texttt{B<OSSP uuid>}$ to allocate the buffer as necessary.

Loads a pre-defined UUID value into the UUID object $\texttt{I<uuid>}$.

The following $\texttt{I<name>}$ arguments are currently known:

=over 4

= item $\texttt{I<name>}$ \hspace{1cm} $\texttt{I<UUID>}$
The "C<ns:>I<XXX>" are names of pre-defined name-space UUIDs for use in the generation of DCE 1.1 version 3 and version 5 UUIDs.

Generates a new UUID in I<uuid> according to I<mode> and optional arguments (dependent on I<mode>).

If I<mode> contains the C<UUID_MAKE_V1> bit, a DCE 1.1 variant UUID of version 1 is generated. Then optionally the bit C<UUID_MAKE_MC> forces the use of random multi-cast MAC address instead of the real physical MAC address (the default). The UUID is generated out of the 60-bit current system time, a 12-bit clock sequence and the 48-bit MAC address.

If I<mode> contains the C<UUID_MAKE_V3> or C<UUID_MAKE_V5> bit, a DCE 1.1 variant UUID of version 3 or 5 is generated and two additional arguments are expected: first, a namespace UUID object (C<uuid_t *>), second, a name string of arbitrary length (C<const char *>). The UUID is generated out of the 128-bit MD5 or 160-bit SHA-1 from the concatenated octet stream of namespace UUID and name string.

If I<mode> contains the C<UUID_MAKE_V4> bit, a DCE 1.1 variant UUID of version 4 is generated. The UUID is generated out of 128-bit random data.

Returns a constant string representation corresponding to the return-code I<rc> for use in displaying B<OSSP uuid> errors.

Returns the hexadecimal encoded B<OSSP uuid> version as compiled into the library object files. This allows run-time checking of the B<OSSP uuid> version. For compile-time checking use C<UUID_VERSION> instead.
The following shows an example usage of the API. Error handling is omitted for code simplification and has to be re-added for production code.

/* generate a DCE 1.1 v1 UUID from system environment */
char *uuid_v1(void)
{
    uuid_t *uuid;
    char *str;

    uuid_create(&uuid);
    uuid_make(uuid, UUID_MAKE_V1);
    str = NULL;
    uuid_export(uuid, UUID_FMT_STR, &str, NULL);
    uuid_destroy(uuid);
    return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid_t *uuid;
    uuid_t *uuid_ns;
    char *str;

    uuid_create(&uuid);
    uuid_create(&uuid_ns);
    uuid_load(uuid_ns, "ns:URL");
    uuid_make(uuid, UUID_MAKE_V3, uuid_ns, url);
    str = NULL;
    uuid_export(uuid, UUID_FMT_STR, &str, NULL);
    uuid_destroy(uuid_ns);
    uuid_destroy(uuid);
    return str;
}

SEE ALSO

The following are references to B<UUID> documentation and specifications:

over 4

item
B<A Universally Unique IDentity (UUID) URN Namespace>,
P. Leach, M. Mealling, R. Salz,
IETF RFC-4122,
July 2005, 32 pages,
http://www.ietf.org/rfc/rfc4122.txt

=item

Information Technology -- Open Systems Interconnection (OSI),
B<Procedures for the operation of OSI Registration Authorities:
Generation and Registration of Universally Unique Identifiers (UUIDs)
and their Use as ASN.1 Object Identifier Components>,
December 2004, 25 pages,

=item

B<DCE 1.1: Remote Procedure Call>,
appendix B<Universally Unique Identifier>,
Open Group Technical Standard
Document Number C706, August 1997, 737 pages,
(supersedes C309 DCE: Remote Procedure Call 8/1994,
which was basis for ISO/IEC 11578:1996 specification),
http://www.opengroup.org/publications/catalog/c706.htm

=item

Information technology -- Open Systems Interconnection (OSI),
B<Remote Procedure Call (RPC)>,
ISO/IEC 11578:1996,
August 2001, 570 pages, (CHF 340.00),
http://www.iso.ch/cate/d2229.html

=item

B<HTTP Extensions for Distributed Authoring (WebDAV)>,
section B<6.4.1 Node Field Generation Without the IEEE 802 Address>,
IETF RFC-2518,
February 1999, 94 pages,
http://www.ietf.org/rfc/rfc2518.txt

=item

B<DCE 1.1 compliant UUID functions>,
FreeBSD manual pages uuid(3) and uuidgen(2),
http://www.freebsd.org/cgi/man.cgi?query=uuid&manpath=FreeBSD+6.0-RELEASE
HISTORY

B<OSSP uuid> was implemented in January 2004 by Ralf S. Engelschall
E<rse@engelschall.com> It was prompted by the use of UUIDs
in the B<OSSP as> and B<OpenPKG> projects. It is a clean room
implementation intended to be strictly standards compliant and maximum
portable.

SEE ALSO

uuid(1), uuid-config(1), OSSP::uuid(3).

Found in path(s):
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid.pod
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##
## uuid.tm: Perl XS typemap for xsubpp(1)
##
TYPMAP

uuid_t * T_PTRREF
uuid_t ** T_PTRREF
uuid_rc_t T_IV
uuid_fmt_t T_IV
int * T_PV
size_t * T_PV
const void * T_PV
void ** T_PV

Found in path(s):
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**
** uuid_dce.h: DCE 1.1 compatibility API definition
*/

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uuid.pc.in: pkg-config(1) specification

prefix=@prefix@
exec_prefix=${prefix}
includedir=${prefix}/include
libdir=${exec_prefix}/lib

Name: OSSP uuid
Description: Universally Unique Identifier (UUID) Library
Version: @UUID_VERSION_RAW@
URL: http://www.ossp.org/pkg/lib/uuid/
Cflags: -I${includedir}
Libs: -L${libdir} -luuid
Libs.private: @LIBS@

Found in path(s):
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**
** uuid_md5.c: MD5 API implementation
*/
/*
* RSA Data Security, Inc., MD5 message-digest algorithm
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* 
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* is identified as the "RSA Data Security, Inc. MD5 Message-Digest
* Algorithm" in all material mentioning or referencing this software
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 **
 ** uuid.xs: Perl Binding (Perl/XS part)
 */

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**
** uuid.c: library API implementation
*/

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## NAME

B<OSSP uuid> - B<Universally Unique Identifier> (C++ API)

## VERSION

OSSP uuid UUID_VERSION_STR

## DESCRIPTION

B<uuid++> is the ISO-C++ language binding of the B<OSSP uuid> C API. It provides a thin ISO-C++ class B<uuid> wrapping the ISO-C API type B<uuid_t>.

## APPLICATION PROGRAMMING INTERFACE

The ISO-C++ Application Programming Interface (API) of B<OSSP uuid> consists of the following components:

### CONSTANTS

The constants are the same to those provided by the ISO-C API. See uuid(3) for details.

### CLASSES

The following classes are provided:

- **B<uuid>**
  This is the class corresponding to the C API type B<uuid_t>. It is the main object.

- **B<uuid_error_t>**
  This is the class corresponding to the C API function B<uuid_error>. It is the object thrown as an exception in case of any errors.
METHODS

The following methods are provided:

- item B<uuid>();
  The standard constructor.

- item B<uuid>(const uuid &_obj);
  The copy constructor for B<uuid> class.

- item B<uuid>(const uuid_t * _obj);
  The import constructor for C API objects.

- item B<uuid>(const void * _bin);
  The import constructor for binary representation.

- item B<uuid>(const char * _str);
  The import constructor for string representation.

- item ~B<uuid>();
  The standard destructor for B<uuid> class.

- item uuid &B<uuid>::operator>>(const uuid &_obj);
  The assignment operator corresponding to the copy constructor.

- item uuid &B<uuid>::operator>>(const uuid_t * _obj);
  The assignment operator corresponding to the import constructor for C API objects.

- item uuid &B<uuid>::operator>>(const void * _bin);
  The assignment operator corresponding to the import constructor for binary representation.

- item uuid &B<uuid>::operator>>(const char * _str);
  The assignment operator corresponding to the import constructor for string and single integer value representation.

- item uuid B<uuid>::clone(void);
Regular method corresponding to the C API function `uuid_clone`.

=item void B<uuid::load>(const char * _name);

Regular method corresponding to the C API function `uuid_load`.

=item void B<uuid::make>(unsigned int _mode, ...);

Regular method corresponding to the C API function `uuid_make`.

=item int B<uuid::isnil>(void);

Regular method corresponding to the C API function `uuid_isnil`.

=item int B<uuid::compare>(const uuid & _obj);

Regular method corresponding to the C API function `uuid_compare`.

=item int B<uuid::operator==>(const uuid & _obj);

The comparison operator corresponding to `uuid_compare` usage for equality.

=item int B<uuid::operator!=(const uuid & _obj);

The comparison operator corresponding to `uuid_compare` usage for inequality.

=item int B<uuid::operatorE<lt>>(const uuid & _obj);

The comparison operator corresponding to `uuid_compare` usage for less-than.

=item int B<uuid::operatorE<lt>=>(const uuid & _obj);

The comparison operator corresponding to `uuid_compare` usage for less-than-or-equal.

=item int B<uuid::operatorE<gt>>(const uuid & _obj);

The comparison operator corresponding to `uuid_compare` usage for greater-than.

=item int B<uuid::operatorE<gt>=>(const uuid & _obj);

The comparison operator corresponding to `uuid_compare` usage for greater-than-or-equal.

=item void B<uuid::import>(const void *_bin);

Regular method corresponding to the C API function `uuid_import` for binary representation usage.

=item void B<uuid::import>(const char * _str);
Regular method corresponding to the C API function B<uuid_import> for string representation usage.

=item void *B<uuid::binary>(void);

Regular method corresponding to the C API function B<uuid_export> for binary representation usage.

=item char *B<uuid::string>(void);

Regular method corresponding to the C API function B<uuid_export> for string representation usage.

=item char *B<uuid::integer>(void);

Regular method corresponding to the C API function B<uuid_export> for single integer value representation usage.

=item char *B<uuid::summary>(void);

Regular method corresponding to the C API function B<uuid_export> for textual summary representation usage.

=item unsigned long B<uuid::version>(void);

Regular method corresponding to the C API function B<uuid_version>.

=item B<uuid_error_t>()

The standard constructor for B<uuid_error_t> class.

=item B<uuid_error_t>(uuid_rc_t _code)

The standard constructor for B<uuid_error_t> class with return code initialization.

=item ~B<uuid_error_t>()

The standard destructor for B<uuid_error_t> class.

=item void B<uuid_error_t::code>(uuid_rc_t _code)

Regular method for setting the return code.

=item uuid_rc_t B<uuid_error_t::code>(void)

Regular method for fetching the return code.

=item char *B<uuid_error_t::string>(void)

Regular method for fetching the string corresponding to the current return code.

=back
EXAMPLE

The following shows an example usage of the C++ API. Exception handling is
omitted for code simplification and has to be re-added for production
code.

/* generate a DCE 1.1 v1 UUID from system environment */
char *uuid_v1(void)
{
    uuid id;
    char *str;

    id.make(UUID_MAKE_V1);
    str = id.string();
    return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid id;
    uuid id_ns;
    char *str;

    id_ns.load("ns:URL");
    id.make(UUID_MAKE_V3, &id_ns, url);
    str = id.string();
    return str;
}

SEE ALSO

uuid(3).

cut

Found in path(s):
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## uuid_cli.pod: manual page

=pod

=head1 NAME

B<OSSP uuid> - B<Universally Unique Identifier Command-Line Tool>

=head1 VERSION

OSSP uuid UUID_VERSION_STR

=head1 SYNOPSIS

B<uuid>
[B<-v> I<version>]
[B<-m>]
[B<-n> I<count>]
[B<-1>]
[B<-F> I<format>]
[B<-o> I<filename>]
[I<namespace> I<name>]

B<uuid>
B<-d>
[B<-r>]
[B<-o> I<filename>]
I<uuid>

=pod
DESCRIPTION

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

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

This is the command line interface (CLI) of B<OSSP uuid>. For a detailed description of UUIDs see the documentation of the application programming interface (API) in uuid(3).

OPTIONS

-v I<version>

Sets the version of the generated DCE 1.1 variant UUID. Supported are I<version> "C<1>", "C<3>", "C<4>", and "C<5>". The default is "C<1>".

For version 3 and version 5 UUIDs the additional command line arguments I<namespace> and I<name> have to be given. The I<namespace> is either a UUID in string representation or an identifier for internally pre-defined namespace UUIDs (currently known are "C<ns:DNS>", "C<ns:URL>", "C<ns:OID>", and "C<ns:OID>"). The I<name> is a string of arbitrary length.

-m

Forces the use of a random multi-cast MAC address when generating version 1 UUIDs. By default the real physical MAC address of the system is used.

-n I<count>
Generate I<count> UUIDs instead of just a single one (the default).

=item B<-1>

If option B<-n> is used with a I<count> greater than C<1>, then this option can enforce the reset the UUID context for each generated UUID. This makes no difference for I<version> C<3>, C<4> and C<5> UUIDs. But version C<1> UUIDs are based on the previously generated UUID which is remembered in the UUID context of the API. Option B<-1> deletes the remembered UUID on each iteration.

=item B<-F> I<format>

Representation format for importing or exporting an UUID. The following (case insensitive) format identifiers are currently recognized:

=over 4

=item C<BIN> (binary representation)

This is the raw 128 bit network byte order binary representation of a UUID. Example is the octet stream C<0xF8 0x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>.

=item C<STR> (string representation)

This is the 36 character hexadecimal ASCII string representation of a UUID. Example is the string "C<f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

=item C<SIV> (single integer value representation)

This is the maximum 39 character long single integer value representation of a UUID. Example is the string "C<329800735698586629295641978511506172918>".

=back

=item B<-o> I<filename>

Write output to I<filename> instead of to F<stdout>.

=item B<-d>

Decode a given UUID (given as a command line argument or if the command line argument is "C<->" the UUID is read from F<stdin>) and dump textual information about the UUID.
# generate DCE 1.1 v1 UUID (time and node based)
$ uuid -v1
01c47915-4777-11d8-bc70-0090272ff725

# decode and dump DCE 1.1 v1 UUID (time and node based)
$ uuid -d 01c47915-4777-11d8-bc70-0090272ff725
encode: STR: 01c47915-4777-11d8-bc70-0090272ff725
SIV: 23493740375285788879230943747721111141
version: 1 (time and node based)
clock: 15472 (usually random)
node: 00:90:27:2f:f7:25 (global unicast)

# generate DCE 1.1 v3 UUID (name based)
$ uuid -v3 ns:URL http://www.ossp.org/
02d9e6d5-9467-382e-8f9b-9300a64ac3cd

# decode and dump DCE 1.1 v3 UUID (name based)
$ uuid -d 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
encode: STR: 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
SIV: 378986628560791088810081838350376205
version: 3 (name based, MD5)
(not decipherable: MD5 message digest only)

# generate DCE 1.1 v4 UUID 4 (random data based)
$ uuid -v4
eb424026-6f54-4ef8-a4d0-bb658a1fc6cf

# decode and dump DCE 1.1 v4 UUID 4 (random data based)
$ uuid -d eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
encode: STR: eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
SIV: 312712571721458096795100956955942831823
version: 4 (random data based)
(no semantics: random data only)
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Found in path(s):
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1.6.2-orig-1-tar-gz/uuid-1.6.2/uuid_cli.pod
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** uuid_sha1.c: SHA-1 API implementation
*/

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**
** uuid.c: PHP/Zend API (language: C)
*/

Found in path(s):
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/ *
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** which can be found at http://www.ossp.org/pkg/lib/ui128/.
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**
** ui128.h: API declaration
*/

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**
** uuid_prng.h: PRNG API definition
*/

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**
** uuid_prng.c: PRNG API implementation
*/

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## NAME

OSSP::uuid - B<OSSP uuid> Perl Binding

## DESCRIPTION

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

B<OSSP::uuid> is the Perl binding to the B<OSSP uuid> API.

Three variants are provided:

### TIE-STYLE API

The TIE-style API is a functionality-reduced wrapper around the OO-style API and intended for very high-level convenience programming:

```perl
=item C<use OSSP::uuid;>

=item B<tie>C< my $uuid, 'OSSP::uuid::tie', $mode, ...;>

=item C<Suuid = [ $mode, ... ];>

=item C<print "UUID=$uuid\n";>

=item C<untie $uuid;>
```

=back
=head2 OO-STYLE API

The OO-style API is a wrapper around the C-style API and intended for high-level regular programming.

=over 4

=item C<use OSSP::uuid;>

=item C<my $uuid = B<new>C< OSSP::uuid;>

=item C<$uuid-E<gt>>B<load>C<($name);>

=item C<$uuid-E<gt>>B<make>C<($mode, ...);>

=item C<$result = $uuid-E<gt>>B<isnil>C<();>

=item C<$result = $uuid-E<gt>>B<compare>C<($uuid2);>

=item C<$uuid-E<gt>>B<import>C<($fmt, $data_ptr);>

=item C<$data_ptr = $uuid-E<gt>>B<export>C<($fmt);>

=item C<[$str, $rc] = $uuid-E<gt>>B<error>C<();>

=item C<$ver = $uuid-E<gt>>B<version>C<();>

=item C<undef $uuid;>

=back

Additionally, the strings C("v1"), C("v3"), C("v4"), C("v5") and C("mc") can be used in C<$mode> and the strings C("bin"), C("str"), and C("txt") can be used for C<$fmt>.

=head2 C-STYLE API

The C-style API is a direct mapping of the B<OSSP uuid> ISO-C API to Perl and is intended for low-level programming. See uuid(3) for a description of the functions and their expected arguments.

=over 4

=item C<use OSSP::uuid qw(:all);>

=item C<my $uuid; $rc = B<uuid_create>C<($uuid);>
Additionally, the following constants are exported for use in $rc$, $mode$, $fmt$ and $ver$:

C<UUID_VERSION>,
C<UUID_LEN_BIN>,
C<UUID_LEN_STR>,
C<UUID_RC_OK>,
C<UUID_RC_ARG>,
C<UUID_RC_MEM>,
C<UUID_RC_SYS>,
C<UUID_RC_INT>,
C<UUID_RC_IMP>,
C<UUID_MAKE_V1>,
C<UUID_MAKE_V3>,
C<UUID_MAKE_V4>,
C<UUID_MAKE_V5>,
C<UUID_MAKE_MC>,
C<UUID_FMT_BIN>,
C<UUID_FMT_STR>,
C<UUID_FMT_SIV>,
C<UUID_FMT_TXT>.

=head1 EXAMPLES

The following two examples create the version 3 UUID
C<02d9e6d5-9467-382e-8f9b-9300a64ac3cd>, both via the OO-style and the
C-style API. Error handling is omitted here for easier reading, but has
to be added for production-quality code.
# TIE-style API (very high-level)
use OSSP::uuid;
tie my $uuid, 'OSSP::uuid::tie';
$uuid = [ "v1" ];
print "UUIDs: $uuid, $uuid, $uuid\n";
$uuid = [ "v3", "ns:URL", "http://www.ossp.org/" ];
print "UUIDs: $uuid, $uuid, $uuid\n";
untie $uuid;

# OO-style API (high-level)
use OSSP::uuid;
my $uuid = new OSSP::uuid;
my $uuid_ns = new OSSP::uuid;
$uuid_ns->load("ns:URL");
$uuid->make("v3", $uuid_ns, "http://www.ossp.org/");
undef $uuid_ns;
my $str = $uuid->export("str");
undef $uuid;
print "$str\n";

# C-style API (low-level)
use OSSP::uuid qw(:all);
my $uuid; uuid_create($uuid);
my $uuid_ns; uuid_create($uuid_ns);
uuid_load($uuid_ns, "ns:URL");
uuid_make($uuid, UUID_MAKE_V3, $uuid_ns, "http://www.ossp.org/");
uuid_destroy($uuid_ns);
my $str; uuid_export($uuid, UUID_FMT_STR, $str, undef);
uuid_destroy($uuid);
print "$str\n";

=head1 SEE ALSO

uuid(1), uuid-config(1), uuid(3).

=head1 HISTORY

The Perl binding B<OSSP::uuid> to B<OSSP uuid> was implemented in
November 2004 by Ralf S. Engelschall E<lt>rse@engelschall.comE<gt>.

=cut

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 ** uuid++.cc: library C++ API implementation
 */

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--
-- uuid.sql: PostgreSQL Binding (SQL part)
--
--
-- prolog
--
--
SET search_path TO public;
SET client_min_messages TO warning;

DROP FUNCTION uuid_in(CSTRING)  CASCADE;
DROP FUNCTION uuid_out(uuid)  CASCADE;
DROP FUNCTION uuid_recv(INTERNAL)  CASCADE;
DROP FUNCTION uuid_send(uuid)  CASCADE;
DROP TYPE uuid CASCADE;
DROP CAST (CSTRING AS uuid)  CASCADE;
DROP CAST (uuid AS CSTRING)  CASCADE;

DROP FUNCTION uuid(CSTRING)  CASCADE;
DROP FUNCTION uuid(INTEGER)  CASCADE;
DROP FUNCTION uuid(INTEGER, CSTRING, CSTRING)  CASCADE;

DROP FUNCTION uuid_eq(uuid)  CASCADE;
DROP FUNCTION uuid_ne(uuid)  CASCADE;
DROP FUNCTION uuid_lt(uuid, uuid)  CASCADE;
DROP FUNCTION uuid_gt(uuid, uuid)  CASCADE;
DROP FUNCTION uuid_le(uuid, uuid)  CASCADE;
DROP FUNCTION uuid_ge(uuid, uuid)  CASCADE;
DROP OPERATOR =(uuid,uuid)  CASCADE;
DROP OPERATOR <>(uuid,uuid)  CASCADE;
DROP OPERATOR <(uuid,uuid) CASCADE;
DROP OPERATOR >(uuid,uuid) CASCADE;
DROP OPERATOR <=(uuid,uuid) CASCADE;
DROP OPERATOR >=(uuid,uuid) CASCADE;

DROP FUNCTION uuid_hash(uuid) CASCADE;
DROP FUNCTION uuid_cmp(uuid, uuid) CASCADE;
DROP OPERATOR CLASS uuid_ops USING hash CASCADE;
DROP OPERATOR CLASS uuid_ops USING btree CASCADE;

BEGIN;

--
--  the UUID data type
--

CREATE FUNCTION uuid_in(CSTRING) RETURNS uuid
  STRICT LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION uuid_out(uuid) RETURNS CSTRING
  STRICT LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_out';

CREATE FUNCTION uuid_recv(INTERNAL) RETURNS uuid
  STRICT LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_recv';

CREATE FUNCTION uuid_send(uuid) RETURNS BYTEA
  STRICT LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_send';

CREATE TYPE uuid (  
  INPUT  = uuid_in,  -- for SQL input  
  OUTPUT = uuid_out,  -- for SQL output  
  RECEIVE = uuid_recv,  -- for DB input  
  SEND   = uuid_send,  -- for DB output  
  DEFAULT = 'uuid(1)',  
  INTERNALLENGTH = 16,  
  ALIGNMENT = char  
);

COMMENT ON TYPE uuid
IS 'UUID type';
CREATE FUNCTION
uuid(CSTRING) RETURNS uuid
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION
uuid(INTEGER) RETURNS uuid
VOLATILE CALLED ON NULL INPUT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

CREATE FUNCTION
uuid(INTEGER, CSTRING, CSTRING) RETURNS uuid
VOLATILE CALLED ON NULL INPUT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

CREATE FUNCTION
uuid_eq(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_eq';

CREATE FUNCTION
uuid_ne(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ne';

CREATE FUNCTION
uuid_lt(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_lt';

CREATE FUNCTION
uuid_gt(uuid, uuid) RETURNS BOOL
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_gt';
CREATE FUNCTION
  uuid_le(uuid, uuid) RETURNS BOOL
  IMMUTABLE STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_le';

CREATE FUNCTION
  uuid_ge(uuid, uuid) RETURNS BOOL
  IMMUTABLE STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ge';

CREATE OPERATOR = (
  leftarg = uuid,
  rightarg = uuid,
  negator = <>,
  procedure = uuid_eq
);

CREATE OPERATOR <> (
  leftarg = uuid,
  rightarg = uuid,
  negator = =,
  procedure = uuid_ne
);

CREATE OPERATOR < (
  leftarg = uuid,
  rightarg = uuid,
  commutator = >,
  negator = >=,
  procedure = uuid_lt
);

CREATE OPERATOR > (
  leftarg = uuid,
  rightarg = uuid,
  commutator = <,
  negator = <=,
  procedure = uuid_gt
);

CREATE OPERATOR <= (}
  leftarg = uuid,
  rightarg = uuid,
  commutator = >=,
  negator = >,
  procedure = uuid_le
);
CREATE OPERATOR >= (  
  leftarg = uuid,  
  rightarg = uuid,  
  commutator = <=,  
  negator = <,  
  procedure = uuid_ge
);

--  the UUID support for indexing
--

CREATE FUNCTION uuid_hash(uuid) RETURNS INTEGER  
IMMUTABLE STRICT  
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_hash';

CREATE FUNCTION uuid_cmp(uuid, uuid) RETURNS INTEGER  
IMMUTABLE STRICT  
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_cmp';

CREATE OPERATOR CLASS uuid_ops  
DEFAULT FOR TYPE uuid USING hash AS  
OPERATOR 1 =, -- 1: equal  
FUNCTION 1 uuid_hash(uuid);

CREATE OPERATOR CLASS uuid_ops  
DEFAULT FOR TYPE uuid USING btree AS  
OPERATOR 1 <, -- 1: less than  
OPERATOR 2 <=, -- 2: less than or equal  
OPERATOR 3 =, -- 3: equal  
OPERATOR 4 >=, -- 4: greater than or equal  
OPERATOR 5 >, -- 5: greater than  
FUNCTION 1 uuid_cmp(uuid, uuid);

--
-- epilog
--

COMMIT;

Found in path(s):  
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/pgsql/uuid.sql.in  
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** uuid_mac.h: Media Access Control (MAC) resolver API definition
*/

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**
** uuid_dce.c: DCE 1.1 compatibility API implementation
*/

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**
** uuid_dce.c: DCE 1.1 compatibility API implementation
*/

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 **
 ** uuid_md5.h: MD5 API definition
 */

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* /opt/cola/permits/1129089660_1612173937.92/o/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/uuid_compat.pm
* /opt/cola/permits/1129089660_1612173937.92/o/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/uuid_compat.ts
* /opt/cola/permits/1129089660_1612173937.92/o/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/php/uuid.php5
* /opt/cola/permits/1129089660_1612173937.92/o/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/php/uuid.php4
* /opt/cola/permits/1129089660_1612173937.92/o/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/uuid.pm
* /opt/cola/permits/1129089660_1612173937.92/o/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/Makefile.PL
dnl

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dnl

cfg.m4: PHP/Zend API build-time configuration (language: m4)

dnl

PHP_ARG_ENABLE(uuid, OSSP uuid module,

[ --enable-uuid Enable OSSP uuid extension module.])

if test "SPHP_UUID" != "no"; then

PHP_NEW_EXTENSION(uuid, uuid.c, Sext_shared)
AC_DEFINE(HAVE_UUID, 1, [Have OSSP uuid library])
PHP_ADD_LIBPATH([..], )
PHP_ADD_LIBRARY([uuid],, UUID_SHARED_LIBADD)
PHP_ADD_INCLUDE([..])
PHP_SUBST(UUID_SHARED_LIBADD)

dnl avoid linking conflict with a potentially existing uuid_create(3) in libc
AC_CHECK_FUNC(uuid_create,[
SAVE_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS -Wl,-Bsymbolic"
AC_TRY_LINK([],[], [EXTRA_LDFLAGS="$EXTRA_LDFLAGS -Wl,-Bsymbolic"])
LDFLAGS="$SAVE_LDFLAGS"])
fi

Found in path(s):
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/php/config.m4
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 **
 ** uuid_ac.c: auto-configuration
 */

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uuid_bm.c: bitmask API implementation
 */

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**
** uuid++: library C++ API definition
*/

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**
** uuid_mac.c: Media Access Control (MAC) resolver implementation
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OSSP uuid - Universally Unique Identifier
Version 1.6.2 (04-Jul-2008)

ABSTRACT

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

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

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HOME AND DOCUMENTATION

The documentation and latest release can be found on

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

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 ** ui64.c: implementation of 64-bit unsigned integer arithmetic
 */

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* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid_ui64.c
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###
### uuid_compat.pod: Data::UUID Backward Compatibility Perl API (Perl/POD part)
###
### =pod
###
### =head1 NAME
###
### Data::UUID - B< OSSP uuid> Backward Compatibility Perl Binding
###
### =head1 DESCRIPTION
###
### B<Data::UUID> is the B< OSSP uuid> backward compatibility Perl binding
to the API of the original B<Data::UUID> module. It allows other
B<Data::UUID> based Perl modules to run with B<OSSP::uuid> without
changes.

=head1 SEE ALSO

B<OSSP::uuid>.
The backward compatibility Perl binding `Data::UUID` for `OSSP uuid` was originally implemented in 2004 by Piotr Roszatycki `<dexter@debian.org>` It was later cleaned up and speed optimized in December 2005 by David Wheeler `<david@justatheory.com>`.

Found in path(s):
* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/uuid_compat.pod

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 **
 ** uuid_time.h: Time Management API
 */

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1.1627 jersey-test-framework-core 2.22.2
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support/man2html.c

* This program was written by Richard Verhoeven (NL:5482ZX35)
* at the Eindhoven University of Technology. Email: rcb5@win.tue.nl
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1.1638 spew 1.1.1

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1.1639 zlib 1.0.9

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/* uncompr.c -- decompress a memory buffer
 * Copyright (C) 1995-1998 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
 * Copyright (C) 1995-1998 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

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/* zutil.h -- internal interface and configuration of the compression library
 * Copyright (C) 1995-1998 Jean-loup Gailly.
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 */
/*

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/* example.c -- usage example of the zlib compression library
 * Copyright (C) 1995-1998 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/example.c
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/* inftrees.c -- generate Huffman trees for efficient decoding
 * Copyright (C) 1995-1998 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

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/* crc32.c -- compute the CRC-32 of a data stream
 * Copyright (C) 1995-1998 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
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/* adler32.c -- compute the Adler-32 checksum of a data stream
 * Copyright (C) 1995-1998 Mark Adler
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 */

Found in path(s):
* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/adler32.c
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/* deflate.c -- compress data using the deflation algorithm
 * Copyright (C) 1995-1998 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

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/* infcodes.c -- process literals and length/distance pairs
 * Copyright (C) 1995-1998 Mark Adler
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 */

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/* minigzip.c -- simulate gzip using the zlib compression library
 * Copyright (C) 1995-1998 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.0.9, Feb 16th, 1998

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 The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

Found in path(s):
* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/zlib.h
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/* inffast.c -- process literals and length/distance pairs fast
 * Copyright (C) 1995-1998 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

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/* infblock.h -- header to use infblock.c
 * Copyright (C) 1995-1998 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

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* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/infblock.h
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/* inffast.h -- header to use inffast.c
 * Copyright (C) 1995-1998 Mark Adler
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* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/Makefile
* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/Makefile.w32
* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/msdos/Makefile.dj2
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/* compress.c -- compress a memory buffer
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 */

Found in path(s):
/* inflate_util.c -- data and routines common to blocks and codes
 * Copyright (C) 1995-1998 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/inftutil.c
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/* infhtrees.h -- header to use infhtrees.c
 * Copyright (C) 1995-1998 Mark Adler
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 */

Found in path(s):
* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/inftrees.h
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/* zconf.h -- configuration of the zlib compression library
 * Copyright (C) 1995-1998 Jean-loup Gailly.
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 */

Found in path(s):
* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/zconf.h
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/* infutil.h -- types and macros common to blocks and codes
 * Copyright (C) 1995-1998 Mark Adler
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 */

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/* infhtblock.c -- interpret and process block types to last block
 * Copyright (C) 1995-1998 Mark Adler
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 */

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/* trees.c -- output deflated data using Huffman coding
 * Copyright (C) 1995-1998 Jean-loup Gailly
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 */

Found in path(s):
* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/trees.c
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/* inflate.c -- zlib interface to inflate modules
 * Copyright (C) 1995-1998 Mark Adler
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 */

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/* gzio.c -- IO on .gz files
 * Copyright (C) 1995-1998 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 *
 * Compile this file with -DNO_DEFLATE to avoid the compression code.
 */

Found in path(s):
* /opt/cola/permits/1220153827_1635873244.4/0/zlib-1-0-9-tar-gz/zlib-1.0.9/gzio.c
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/* deflate.h -- internal compression state
 * Copyright (C) 1995-1998 Jean-loup Gailly
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 */

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zlib 1.0.9 is a general purpose data compression library. All the code
is thread safe. The data format used by the zlib library
is described by RFCs (Request for Comments) 1950 to 1952 in the files
ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate
format) and rfc1952.txt (gzip format). These documents are also available in
other formats from ftp://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact jloup@gzip.org). A usage
example of the library is given in the file example.c which also tests that
the library is working correctly. Another example is given in the file minigzip.c. The compression library itself is composed of all source files except example.c and minigzip.c.

To compile all files and run the test program, follow the instructions given at the top of Makefile. In short “make test; make install” should work for most machines. For MSDOS, use one of the special makefiles such as Makefile.msc; for VMS, use Make_vms.com or descrip.mms.

Questions about zlib should be sent to <zlib@quest.jpl.nasa.gov> or, if this fails, to the addresses given below in the Copyright section. The zlib home page is http://www.cdrom.com/pub/infozip/zlib/ The official zlib ftp site is ftp://ftp.cdrom.com/pub/infozip/zlib/

Mark Nelson wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available in http://web2.airmail.net/markn/articles/zlibtool/zlibtool.htm

The changes made in version 1.0.9 are documented in the file ChangeLog. The main changes since 1.0.8 are:

- added gzputs and gzgets functions
- do not clear eof flag in gzseek (Mark Diekhans)
- fix gzseek for files in transparent mode (Mark Diekhans)
- do not assume that vsprintf returns the number of bytes written (Jens Krinke)
- replace EXPORT with ZEXPORT to avoid conflict with other programs
- added compress2 in zconf.h, zlib.def, zlib.dnt
- new asm code from Gilles Vollant in contrib/asm386
- simplify the inflate code (Mark):
  . Replace ZALLOC's in huft_build() with single ZALLOC in inflate_blocks_new()
  . ZALLOC the length list in inflate_trees_fixed() instead of using stack
  . ZALLOC the value area for huft_build() instead of using stack
  . Simplify Z_FINISH check in inflate()

Unsupported third party contributions are provided in directory "contrib".

A Java implementation of zlib is available in the Java Development Kit 1.1 http://www.javasoft.com/products/JDK/1.1/docs/api/Package-java.util.zip.html See the zlib home page http://www.cdrom.com/pub/infozip/zlib/ for details.

A Perl interface to zlib written by Paul Marquess <pmarquess@bfsec.bt.co.uk> is in the CPAN (Comprehensive Perl Archive Network) sites, such as: ftp://ftp.cis.ufl.edu/pub/perl/CPAN/modules/by-module/Compress/Compress-Zlib*

A Python interface to zlib written by A.M. Kuchling <amk@magnet.com> is available from the Python Software Association sites, such as: ftp://ftp.python.org/pub/python/contrib/Encoding/zlib*.tar.gz
Notes for some targets:

- To build a Windows DLL version, include in a DLL project zlib.def, zlib.rc and all .c files except example.c and minigzip.c; compile with -DZLIB_DLL. The zlib DLL support was initially done by Alessandro Iacopetti and is now maintained by Gilles Vollant <info@winimage.com>. Check the zlib DLL home page at http://www.winimage.com/zLibDll.

From Visual Basic, you can call the DLL functions which do not take a structure as argument: compress, uncompress and all gz* functions. See contrib/visual-basic.txt for more information. I don't know how to handle structures in Visual Basic, sorry.

- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1. It works when compiled with cc.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.

- For shared memory multiprocessors, the decompression code assumes that writes to pointers are atomic. Also the functions zalloc and zfree passed to deflateInit must be multi-threaded in this case.

- gzdopen is not supported on RISCOS, BEOS and Mac

- For Turbo C the small model is supported only with reduced performance to avoid any far allocation; it was tested with -DMAX_WBITS=11 -DMAX_MEM_LEVEL=3

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly        Mark Adler
jlopop@gzip.org          madler@alumni.caltech.edu

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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- jsp_2_2.xsd
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- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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1.1642 less 481 2.1ubuntu0.2

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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
3a0982da308228d796df35f98d787c5c3f2bb5b6.

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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<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="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
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</xsl:text>
</xsl:variable>

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  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select=""/>
    <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
      <xsl:text>Copyright (C) </xsl:text>
      <xsl:call-template name="copyright.years">
        <xsl:with-param name="years" select="year"/>
      </xsl:call-template>
      <xsl:text> </xsl:text>
    </xsl:for-each>
  </xsl:call-template>
</xsl:variable>

</xsl:stylesheet>
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* /opt/cola/permits/1150819472_1617691637.24/0/scala-reflect-2-12-1-sources-1.jar/scala/reflect/runtime/package.scala

1.1660 powermock-reflect 1.7.4

1.1661 gcache
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1.1665 kubernetes-csi-external-attacher 3.2.1

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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Huff.java
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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/Property.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/CookieList.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/XMLTokener.java
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1.1672 pulseaudio 8.0 0ubuntu3.2
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/persistence/SnapShot.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/Environment.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/command/DigestCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/ObserverMaster.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/auth/KerberosName.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/
jar/org/apache/zookeeper/server/NIOServerCnxn.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/QuorumZooKeeperServer.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/command/MonitorCommand.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/common/IOUtils.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/LeaderZooKeeperServer.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/metrics/MetricsProvider.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/admin/Commands.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/metrics/MetricsContext.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/DataTreeMXBean.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/auth/QuorumAuthLearner.java
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* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/admin/CommandBase.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/ClientWatchManager.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/client/ConnectStringParser.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/util/AuthUtil.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/watch/WatchManagerFactory.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/UpgradeableSessionTracker.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/NIOServerCnxnFactory.java
* /opt/cola/permits/1102684010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/command/RuokCommand.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/audit/Log4jAuditLogger.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/MalformedPathException.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/LearnerSyncRequest.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/metrics/impl/NullMetricsProvider.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/command/DirsCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/ZooKeeperTestable.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/LeaderSessionTracker.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/command/ConsCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/watch/IWatchManager.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/auth/X509AuthenticationProvider.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/ZooKeeperServerShutdownHandler.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/LeaderElectionBean.java

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jar/org/apache/zookeeper/cli/ProcessClean.java
* /opt/cola/permits/110639010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/ZooKeeperServerBean.java
* /opt/cola/permits/110639010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/command/CommandExecutor.java
* /opt/cola/permits/110639010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/common/X509Util.java
* /opt/cola/permits/110639010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/command/DumpCommand.java
* /opt/cola/permits/110639010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/zookeeper/ZooKeeperServer.java
* /opt/cola/permits/110639010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/zookeeper/ServerConfig.java
* /opt/cola/permits/110639010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/util/BitMap.java
* /opt/cola/permits/110639010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/CreateMode.java
* /opt/cola/permits/110639010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/auth/AuthenticationProvider.java
* /opt/cola/permits/110639010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/CreateMode.java
* /opt/cola/permits/110639010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/SyncedLearnerTracker.java

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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/Login.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/StatCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/metrics/impl/DefaultMetricsProvider.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/UnifiedServerSocket.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/metrics/Summary.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/ResponseCache.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/Vote.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/ObserverBean.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/metrics/Counter.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/LearnerHandlerBean.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/SetCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/ZooKeeperServerMXBean.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/util/OSMXBean.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/common/ZKTrustManager.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/admin/DummyAdminServer.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/TxnLogProposalIterator.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/admin/CommandOutputter.java
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  * 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

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* Non-multipart encoding for POST requests

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* Support for TLS SNI
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* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

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* Cory Benfield <http://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

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  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
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  * Support for non-ASCII header parameters

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  * 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 <http://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 <http://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 <abacabadabacaba@gmail.com>
* Bugfixes

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* 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

* Jon Wayne Parrott <jonwayne@google.com>
* App Engine environment tests.

* 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()`.

* 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.

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  * [Brief summary of your changes]

---

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