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4.0.30319.17929

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Martin Richards
23 February 2007
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By Sean Eron Anderson
seander@cs.stanford.edu

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/*/ zlib.h -- interface of the 'zlib' general purpose compression library
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  </PropertyGroup>
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    <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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1.3 ecj 3.10.1-2ubuntu1

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1.4 jackson-mapper-asl 1.9.13

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1.5 kerby-util 2.0.0

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1.6 pixman 0.33.6 1

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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

-----
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 GPLv2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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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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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

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man/tree.3

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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/vis.3
man/wcsclpy.3
src/getbsize.c
src/heapsort.c
src/merge.c
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src/arc4random_unix.h
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* 
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* 
* Changed so as no longer to depend on Colin Plumb's `usual.h'
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1.15 prompt-toolkit 2.0.10

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1.16 cxf-rt-bindings-soap 3.1.10

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1.17 commons-beanutils 1.9.4

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1.18 kazoo 2.2.1 1ubuntu1

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* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/CompleteChannelFuture.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/EventLoop.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/socket/DatagramPacket.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/DefaultFileRegion.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/ChannelPromise.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/bootstrap/package-info.java

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* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/AbstractEventLoop.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/PendingWriteQueue.java

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* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/ChannelInboundInvoker.java
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* /opt/cola/permits/1151111219_1617788622_76_0/netty-transport-4_1-47-final-sources-5-
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*/opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5.jar/io/netty/channel/selectedchannel/package-info.java
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*/opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5.jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
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jar/io/netty/channel/socket/io/OioSocketChannelConfig.java
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* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/pool/package-info.java
* /opt/cola/permits/1151111219_1617788622.76/0/netty-transport-4-1-47-final-sources-5-jar/io/netty/channel/pool/AbstractChannelPoolHandler.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 [ChannelPipeline].
*
* <h3>Sub-types</h3>
* <p>
* [ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* </p>
* <ul>
* <li>[ChannelInboundHandler] to handle inbound I/O events, and</li>
* <li>[ChannelOutboundHandler] to handle outbound I/O operations.</li>
* </ul>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* </p>
* <ul>
* <li>[ChannelInboundHandlerAdapter] to handle inbound I/O events, </li>
* <li>[ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
* <li>[ChannelDuplexHandler] to handle both inbound and outbound events</li>
* </ul>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* 
* A [ChannelHandler] is provided with a [ChannelHandlerContext]
* object. A [ChannelHandler] is supposed to interact with the
* [ChannelPipeline] it belongs to via a context object. Using the
* context object, the [ChannelHandler] can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using [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:

```
* public interface Message {
  // your methods here
* }

* public class DataServerHandler extends `@link SimpleChannelInboundHandler`<Message> {
  *
  * `private boolean loggedIn;`
  *
  * `{ @code @Override }
  * public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
  *   if (message instanceof LoginMessage) {
  *     authenticate((LoginMessage) message);
  *     loggedIn = true;</b>
  *   } else (message instanceof GetDataMessage) {
  *     if (loggedIn) {
  *       ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
  *     } else {
  *       fail();
  *     }
  *   }
  *   ...
  * }
  */
```

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 a unauthenticated client can get the confidential information:

```
* // Create a new handler instance per channel.
* // See `@link ChannelInitializer#initChannel(Channel)`.
* public class DataServerInitializer extends `@link ChannelInitializer`<@link Channel> {
  *
  * `{ @code @Override }
  * public void initChannel(<@link Channel> channel) {
  *   channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
  * }
  */
```

**Using `@link AttributeKey`**

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]s which is provided by
* [@link ChannelHandlerContext]:
* <pre>
* public interface Message {
*   // your methods here
* }
* </pre>
* @Sharable
* public class DataServerHandler extends [@link SimpleChannelInboundHandler] &lt;Message&gt; {
*   private final AttributeKey&lt;Boolean&gt; auth = AttributeKey.valueOf("auth");
*   [...]
*   @Override
*   public void channelRead(ChannelHandlerContext ctx, Message message) {
*     Attribute&lt;Boolean&gt; 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();
*       }
*     }
*   }
*   ...
* }<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]&lt;@link Channel&gt; {
*   private static final DataServerHandler SHARED = new DataServerHandler();
*   [...]
*   @Override
*   public void initChannel(@link Channel channel) {
*     channel.pipeline().addLast("handler", SHARED);
*   }
* }<pre>
* <h4>The @Sharable annotation</h4>
* In the example above which used an [@link AttributeKey],
* you might have noticed the @Sharable annotation.
* If a `@link ChannelHandler` is annotated with the `@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 the JCIP annotations.

* 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.

```
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```

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Version: 1.0
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Author: Paul Moore
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Description: UNKNOWN
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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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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1.39 jackson-dataformat-yaml 2.11.2

1.39.1 Available under license:

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1.40 libsodium 1.0.8

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 * 
 * To use Scala runtime reflection, simply use or import `scala.reflect.runtime.universe._`
 * 

* See [[scala.reflect.api.Universe]] or the
* for more details.
*/

Found in path(s):
* /opt/cola/permits/1150819472_1617691637.24/0/scala-reflect-2-12-1-sources-1-
  jar/scala/reflect/runtime/package.scala

1.43 nginx 1.8.1
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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
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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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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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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or
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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.

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1.54 icu 55.1-7ubuntu0.5
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## Makefile

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

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
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
```

---

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 590
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \ 
| sed '"s/a($*)(\..o :[*A]1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@

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

## Versioned libraries rules

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

## Bind internal references

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

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

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

## End BSD-specific setup

1.55 lsscsi 0.27-2.2ubuntu1

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1.56 jackson-dataformat-yaml 2.9.8

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1.57 pycrypto 2.6.1
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Last updated: 2009-02-28

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=== EOF ===

1.58 powermock-core 1.7.4

1.59 ntplib 0.3.4

1.59.1 Available under license:
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from setuptools import setup

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_1618924968.4/0/cf-natali-ntplib-0-3-4-0-gaea7925-tar-gz/cf-natali-ntplib-aea7925/setup.py
No license file was found, but licenses were detected in source scan.

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 NTPExpection 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-ntplib-aea7925/CHANGELOG
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1.60 thrift 0.9.1
1.60.1 Available under license :

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  */

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* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0-9-1-tar-gz/thrift-0.9.1/src/protocol/fastbinary.c

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Found in path(s):
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* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/server/THttpClient.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/transport/THttpClient.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/transport/TSocket.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/transport/TNonblockingServer.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/transport/TProcessPoolServer.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/transport/TSocket.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/transport/TNonblockingServer.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/transport/TNonblockingServer.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/transport/TSSLSocket.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/TSerialization.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/server/__init__.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/server/TServer.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/server/THttpServer.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/server/TSocket.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/server/TTwisted.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/server/TServer.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/protocol/TProtocol.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/protocol/TBase.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/protocol/TTransport.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/protocol/TCompactProtocol.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/protocol/TBinaryProtocol.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/protocol/TJSONProtocol.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/protocol/__init__.py
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0.9.1/src/__init__.py
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Using Thrift with Python
========================

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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. To use the latter, become superuser and do make install.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0-9-1-tar-gz/thrift-0.9.1/README

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* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0-9-1-tar-gz/thrift-0.9.1/PKG-INFO
* /opt/ws_local/PERMITS_SQL/1011795607_1594195958.04/0/thrift-0-9-1-tar-gz/thrift-0.9.1/thrift.egg-info/PKG-INFO

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 608
1.61 cpp 4.4.0

1.61.1 Available under license:

Jan 21, 2002

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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 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(agt@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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@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
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@ifx
@heading END OF TERMS AND CONDITIONS
@end ifx
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@section Appendix: How to Apply These Terms to Your New Programs

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* m4/ax_func_which_gethostbyname_r.m4

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When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

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A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

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A Compilation Process is "Eligible" if it is done using GCC, alone or
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@end appendixsubsec

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1.63 node.js 8.16.0

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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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## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `\<Array\<string\>>`

All license IDs except for the currently deprecated ones.

```javascript

```  
```javascript
```

### require('spdx-license-ids/deprecated')

Type: `\<Array\<string\>>`

Deprecated license IDs.

```javascript

```  
```javascript
```

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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);
```

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 874
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"
]
}
);
```n
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
);
```n
... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
validForOldPackages: false,
validForNewPackages: false,
spxd: 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
);
```
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'),
{
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'LICENSE.txt'
});

assert.deepEqual(valid('SEE LICENSE IN license.md'),
{
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'license.md'
});
```

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);
```

1.64 jersey-json 1.18.3
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1.65 itsdangerous 0.24

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1.66 hdrhistogram 2.1.11

1.67 boringssl 2.0.30.Final

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* /opt/cola/permits/1114588304_1607570386.61/0/netty-tnative-boringssl-static-2.0.30-final-sources-jar/io/netty/internal/tnative/SSLPrivateKeyMethodDecryptTask.java
* /opt/cola/permits/1114588304_1607570386.61/0/netty-tnative-boringssl-static-2.0.30-final-sources-jar/io/netty/internal/tnative/SSLPrivateKeyMethodSignTask.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

Found in path(s):
* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/1156180156_1619139167.92/0/vcversioner-2-16-0-0-1-tar-gz/vcversioner-2.16.0.0/vcversioner.py
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Metadata-Version: 1.1
Name: vcversioner
Version: 2.16.0.0
Summary: Use version control tags to discover version numbers
Home-page: https://github.com/habnabit/vcversioner
vcversioner

`Elevator pitch`: you can write a `setup.py` with no version information specified, and vcversioner will find a recent, properly-formatted VCS tag and extract a version from it.

It's much more convenient to be able to use your version control system's tagging mechanism to derive a version number than to have to duplicate that information all over the place. I eventually ended up copy-pasting the same code into a couple different `setup.py` files just to avoid duplicating version information. But, copy-pasting is dumb and unit testing `setup.py` files is hard. This code got factored out into vcversioner.

Basic usage

vcversioner installs itself as a setuptools hook, which makes its use exceedingly simple::

    from setuptools import setup

    setup(
        # [...]
        setup_requires=['vcversioner'],
        vcversioner={},
    )

The presence of a `vcversioner` argument automagically activates vcversioner and updates the project's version. The parameter to the `vcversioner` argument can also be a dict of keyword arguments which `find_version` will be called with.

To allow tarballs to be distributed without requiring a `.git` (or `.hg`, etc.) directory, vcversioner will also write out a file named (by default) `version.txt`. Then, if there is no VCS program or the program is unable to find any version information, vcversioner will read version information from the `version.txt` file. However, this file needs to be included in a distributed tarball, so the following line should be added to `MANIFEST.in`::

    include version.txt
This isn't necessary if `setup.py` will always be run from a checkout, but otherwise is essential for vcversioner to know what version to use.

The name `version.txt` also can be changed by specifying the `version_file` parameter. For example:

```python
from setuptools import setup

setup(  
    # [...]  
    setup_requires=['vcversioner'],  
    vcversioner={  
        'version_file': 'custom_version.txt',  
    },  
)
```

For compatibility with `semantic versioning`_, `vcversioner` will strip leading `\'v\'\s` from version tags. That is, the tag `\'v1.0\'` will be treated as if it was `\'1.0\'`.

Other prefixes can be specified to be stripped by using the `strip_prefix` argument to vcversioner. For compatibility with `git-dch`, one could specify the `strip_prefix` as `\'debian/\'`.

**Non-hook usage**

```
from setuptools import setup
import vcversioner

setup(  
    # [...]  
    version=vcversioner.find_version().version,  
)
```

This is necessary because the `vcversioner` distutils hook won't be available.

**Version modules**
``setup.py`` isn't the only place that version information gets duplicated. By generating a version module, the ``__init__.py`` file of a package can import version information. For example, with a package named ``spam``:

```python
from setuptools import setup
setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={
        'version_module_paths': ['spam/_version.py'],
    },
)
```

This will generate a ``spam/_version.py`` file that defines ``__version__`` and ``__revision__``. Then, in ``spam/__init__.py``:

```python
from spam._version import __version__, __revision__
```

Since this acts like (and *is*) a regular python module, changing `MANIFEST.in` is not required.

Customizing VCS commands
-------------------------

vcversioner by default tries to detect which VCS is being used and picks a command to run based on that. For git, that is `git --git-dir %(root)s/.git describe --tags --long` . For hg, that is `hg log -R %(root)s -r . --template '{latesttag}-{latesttagdistance}-hg{node|short}'`.

Any command should output a string that describes the current commit in the format ``1.0-0-gdeadbeef``. Specifically, that is ``<version number>-<number of commits between the current commit and the version tagged commit>-<revision>``. The revision should have a VCS-specific prefix, e.g. ``g`` for git and ``hg`` for hg.

However, sometimes this isn't sufficient. If someone wanted to only use annotated tags, the git command could be amended like so:

```python
from setuptools import setup
setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={
        'version_module_paths': ['spam/_version.py'],
    },
)
```
The "vcs_args" parameter must always be a list of strings, which will not be interpreted by the shell. This is the same as what "subprocess.Popen" expects.

This argument used to be spelled "git_args" until support for multiple VCS systems was added.

Development versions
---------------------

cversioner can also automatically make a version that corresponds to a commit that isn't itself tagged. Following 'PEP 386'__, this is done by adding a "post" suffix to the version specified by a tag on an earlier commit. For example, if the current commit is three revisions past the "1.0" tag, the computed version will be "1.0.post3".

This behavior can be disabled by setting the "include_dev_version" parameter to "False". In that case, the aforementioned untagged commit's version would be just "1.0".

Since hg requires a commit to make a tag, there's a parameter "decrement_dev_version" to subtract one from the number of commits after the most recent tag. If the VCS used is detected to be hg (i.e. the revision starts with "hg") and "decrement_dev_version" is not specified as "False", "decrement_dev_version" will be automatically set to "True".

Project roots
-------------

In order to prevent contamination from other source repositories, cversioner in the 1.x version series will only look in the project root directory for repositories. The project root defaults to the current working directory, which is often the case when running setup.py. This can be changed by specifying the "root" parameter. Someone concerned with being able to run setup.py from directories other than the directory containing setup.py should determine the project root from "__file__" in setup.py:

```python
from setuptools import setup
import os

setup(
    # [...]
To get the same behavior in the 0.x version series, ``vcs_args`` can be set to include the ``--git-dir`` flag:

```python
from setuptools import setup
setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={
        vcs_args=['git', '--git-dir', '%(root)s/.git', 'describe',
                  '--tags', '--long'],
    },
)
```

By default, ``version.txt`` is also read from the project root.

Substitutions
~~~~~~~~~~~~~~

As seen above, *root*, *version_file*, and *vcs_args* each support some substitutions:

````(root)s```
The value provided for *root*. This is not available for the *root* parameter itself.

````(pwd)s```
The current working directory.

````f```
will automatically be translated into the correct path separator for the current platform, such as ``:\`` or ``\``.

Sphinx documentation
---------------------

`Sphinx`_ documentation is yet another place where version numbers get duplicated. Fortunately, since sphinx configuration is python code, vcversioner can be used there too. Assuming vcversioner is installed system-wide, this is quite easy. Since Sphinx is typically run with the current working directory as ``<your project root>/docs``, it's necessary to tell vcversioner where the
import vcversioner
version = release = vcversioner.find_version(root='..').version

This assumes that your project root is the parent directory of the current working directory. A slightly longer version which is a little more robust would be:

import vcversioner, os
version = release = vcversioner.find_version(
    root=os.path.dirname(os.path.dirname(os.path.abspath(__file__)))).version

This version is more robust because it finds the project root not relative to the current working directory but instead relative to the `conf.py` file.

If vcversioner is bundled with your project instead of relying on it being installed, you might have to add the following to your `conf.py` before `import vcversioner`:

import sys, os
sys.path.insert(0, os.path.abspath('..))

This line, or something with the same effect, is sometimes already present when using the sphinx `autodoc` extension.

Read the Docs
~~~~~~~~~~~~~~

Using vcversioner is even possible when building documentation on `Read the Docs`_. If vcversioner is bundled with your project, nothing further needs to be done. Otherwise, you need to tell Read the Docs to install vcversioner before it builds the documentation. This means using a `requirements.txt` file.

If your project is already set up to install dependencies with a `requirements.txt` file, add `vcversioner` to it. Otherwise, create a `requirements.txt` file. Assuming your documentation is in a `docs` subdirectory of the main project directory, create `docs/requirements.txt` containing a `vcversioner` line.

Then, make the following changes to your project's configuration: (Project configuration is edited at e.g. https://readthedocs.org/dashboard/vcversioner/edit/)

- Check the checkbox under **Use virtualenv**.
- If there was no `requirements.txt` previously, set the **Requirements
.. |find_version| replace:: ``find_version``

Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: ISC License (ISCL)
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
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 :: Version Control

Found in path(s):
* /opt/cola/permits/1156180156_1619139167.92/0/vcversioner-2-16-0-0-1-tar-gz/vcversioner-2.16.0.0/PKG-INFO
* /opt/cola/permits/1156180156_1619139167.92/0/vcversioner-2-16-0-0-1-tar-gz/vcversioner-2.16.0.0/vcversioner.egg-info/PKG-INFO

1.69 websocket-client 9.1.4.v20140401

1.69.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1154060112_1618681063.35/0/websocket-client-9.1.4-v20140401-sources-2.jar/org/eclipse/jetty/websocket/client/masks/package-info.java
* /opt/cola/permits/1154060112_1618681063.35/0/websocket-client-9.1.4-v20140401-sources-2-
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Found in path(s):
* /opt/cola/permits/1154060112_1618681063.35/0/websocket-client-9-1-4-v20140401-sources-2-jar/about.html

1.70 webencodings 0.5
1.70.1 Available under license:

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from setuptools import setup, find_packages
import io
import os
import re

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

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).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(),
)

Founded in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar.gz/webencodings-0.5/setup.py

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python-webencodings

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
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

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

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

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Metadata-Version: 1.1
Name: webencodings
Version: 0.5
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Simon Sapin
Author-email: simon.sapin@exyr.org
License: BSD
Description: python-webencodings
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
* PyPI releases: http://pypi.python.org/pypi/webencodings
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* Python 2.6+ and 3.3+

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

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

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar.gz/webencodings-0.5/PKG-INFO
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0.5-tar.gz/webencodings-0.5/webencodings.egg-info/PKG-INFO

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```
webencodings.mklabels

Regenarate the webencodings.labels module.

:copyright: Copyright 2012 by Simon Sapin
:license: BSD, see LICENSE for details.
```
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

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

def generate(url):
    parts = [""

    webencodings.labels

    ~~~~~~~~~~~~~

    Map encoding labels to their name.

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

    LABELS = {
        "":
    }

    labels = [
        (repr(assert_lower(label)).lstrip('u'),
        repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['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

## 1.71 icu 60

### 1.71.1 Available under license:

```
--- makefile ---

## Copyright (C) 2016 and later: Unicode, Inc. and others.
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2013, International Business Machines Corporation and
## others. All Rights Reserved.

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

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
## End BSD-specific setup
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#
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1.74 nettle 3.2-1ubuntu0.16.04.1

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The implementation of the CAST128 cipher is written by Steve Reid. Released into the public domain.

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The implementation of MD2 is written by Andrew Kuchling, and hacked some by Andreas Sigfridsson and Niels Mller. Python Cryptography
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This is almost the same code as for MD5 below, with modifications
by Marcus Comstedt. Released into the public domain.

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Manifest-Version: 1.0
Implementation-Title: Netty/Buffer
Bundle-Description: Netty is an asynchronous event-driven network appl
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introduction framework for rapid development of maintainable high performance 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/

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* /opt/cola/permits/1151111103_1617788600.96/0/netty-buffer-4-1-47-final-5-jar/META-INF/MANIFEST.MF

1.76 gnome-vfs 2.24.4 6.1ubuntu1

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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charge to all third parties under the terms of this License.

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

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

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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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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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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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Bit Twiddling Hacks

By Sean Eron Anderson
seander@cs.stanford.edu

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1.78 jackson-dataformat-xml 2.4.5

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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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(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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Bounded MPMC queue
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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::new(callback);
    unsafe extern "C" fn acquire_async_trampoline::<Q: FnOnce(Result<(), glib::Error>) + Send + 'static, Q>
    (_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_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::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_::<F>::new(f);
        connect_raw(
            self.as_ptr() as *mut _,
            b"notify::allowed\0".as_ptr() as *const _,
            Some(transmute(notify_allowed_trampoline::<Self, F> as usize)),
            Box_::<F>::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_::<F>::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_::<F>::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_::<F>::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_::<F>::into_raw(f),
        )
    }
}
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, if you distribute copies of the library, whether gratis
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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.

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

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

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

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
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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 link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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specified materials from the same place.

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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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   a purpose that is entirely well-defined independent of the
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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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Martin Richards
23 February 2007
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/* zlib.h -- interface of the 'zlib' general purpose compression library
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It was later taken over by Matthias Urlichs <smurf@debian.org> and is now maintained by Andreas Metzler <ametzler@debian.org> Eric Dorland <eric@debian.org>, James Westby <jw+debian@jameswestby.net>

It was downloaded from ftp://ftp.gnutls.org/gcrypt/gnutls/

Upstream Authors:
Simon Josefsson *simon [at] josefsson.org*
Current maintainer; draft TLS 1.2 support.

Nikos Mavrogiannopoulos *nmav [at] gnutls.org*
Original author and maintainer of GnuTLS.

Fabio Fiorina *Fabio.Fiorina [at] alcatel.it*
ASN.1 structures parser library (libtasn1).

Timo Schulz *twoaday [at] freakmail.de*
OpenPGP support (OpenCDK library).

Andrew McDonald *andrew [at] mcdonald.org.uk*
OpenSSL compatible interface.

Ludovic Courtes *ludo [at] gnu.org*
Guile bindings, OpenPGP bug fixes.

Mario Lenz *m [at] riolenz.de*
Fixes to OpenCDK.
Howard Chu *hyc [at] symas.com*
APIs to extract X.500 DN's from Certificates.

Ivo Timmermans *ivo [at] o2w.nl*
Man pages, OpenCDK, fixes.

Stefan Walter *stef [at] memberwebs.com*
PKCS8 fix, PKCS #11 backend move to p11-kit.

Yoshisato YANAGISAWA *yanagisawa [at] csg.is.titech.ac.jp*
Camellia support.

Emile Van Bergen *emile [at] e-advies.nl*
TLS/IA fixes.

Joe Orton *jorton [at] redhat.com*
Certificate name import/export, build fixes, test vectors.

Daniel Kahn Gillmor *dkg-debian.org [at] fifthhorseman.net*
OpenPGP discussion and improvements.

David Marn Carreo *davefx [at] gmail.com*
Added gnutls_x509_crq_get_key_id.

Daiki Ueno *ueno [at] unixuser.org*
Added TLS Session Ticket (RFC 5077) support,
finished client-side TLS 1.2 support.

Brad Hards *bradh [at] frogmouth.net*
Add X.509 Issuer Alternative Name functions.

Boyan Kasarov *bkasarov [at] gmail.com*
C++ fixes.

Steve Dispensa *dispensa [at] phonefactor.com*
Initial TLS safe renegotiation patch.

Jonathan Bastien-Filiatrault *joe [at] x2a.org*
Fix TLS-version checks.
Redesign and implementation of the buffering layer.
Initial DTLS implementation.

Ruslan Ijbulatov (LRN) *lrn1986 [at] gmail.com*
Win32 patches.

Andy Polyakov *appro [at] openssl.org*
AES-NI and Padlock assembler code (at lib/accelerated/intel/asm/)
David Woodhouse *dwmw2 [at] infradead.org*
DTLS 0.9 implementation.

Olga Smolenchuk *olyasib12 [at] gmail.com*
DTLS/TLS heartbeat implementation.

Ilya Tumaykin *itumaykin [at] gmail.com*
Elliptic curve support improvements (wmNAF implementation and others).

Martin Storjo *martin [at] martin.st*
DTLS-SRTP support.

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Comment: This code is not used on Debian/*, since we have a working
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1.93 twisted 16.0.0 1
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1.94 jackson-jaxrs 2.4.5

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```
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  jar/net/jcip/annotations/NotThreadSafe.java
* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-
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1

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1.98 ipmi-tool 1.8.11

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1.99 pycryptodome 3.10.1

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1.102 auth 1.0.11

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1.104 libsgutils 1.40-0ubuntu1
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1.114 python 3.5.2 2ubuntu0~16.04.13

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

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

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

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

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1.119 xtrans 1.3.5-1

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******************************************************************************
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## version 0.1
#
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Version 2 RFC1832: XDR: External Data REpresentation
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1.123 html5lib 0.999

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Julian Seward, jseward@bzip.org
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The End

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

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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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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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This option is useful when you wish to copy part of the code of
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**1.129 websocket-server 0.5**

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

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

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```
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<signature of Ty Coon>, 1 April 1989
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75dpi-lutBS12-IL2.bdf 75dpi-lutBS14.bdf 75dpi-lutBS14c.bdf
75dpi-lutBS14-IL2.bdf 75dpi-lutRS12.bdf 75dpi-lutRS12c.bdf
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@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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  o freetype-devel@nongnu.org

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#
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docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c	src/base/md5.c	src/base/md5.h
#
src/bdf/bdf.c	src/bdf/bdf.h	src/bdf/bdfdrivr.c	src/bdf/bdfdrivr.h	src/bdf/bdferror.h	src/bdf/bdflib.c	src/bdf/module.mk	src/bdf/README	src/bdf/rules.mk
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1.142 python 2.5.4
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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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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## 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>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

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

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

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

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

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

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <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]
1.147 libjpeg8-empty 8c-2ubuntu8

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```

1.149 jersey-container-servlet-core 2.22.2
1.150 appdirs 1.4.3

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1.151 xalan 2.7.2

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Joseph Reagle <mailto:site-policy@w3.org>
Last revised by Reagle $Date: 2005-07-19 12:33:09 -0400 (Tue, 19 Jul 2005) $

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    <version>0.1</version>
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  <artifactId>child-2</artifactId>
  <version>0.2</version>
  <packaging>jar</packaging>

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      <name>child-contributor</name>
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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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By Sean Eron Anderson
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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

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

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

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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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b) Use a suitable shared library mechanism for linking with the
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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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<th>Owner</th>
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EOF

1.167 pyvim 3.0.2

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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.
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
export EDITOR=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 Pypy with a noticeable performance boost.

- Several ```:set ...``` 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`

<https://github.com/jonathanslenders/pyvim/blob/master/examples/config/pyvimrc>
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 noticeable 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:
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
   :target: https://travis-ci.org/jonathanslenders/pyvim#

Platform: UNKNOWN

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

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

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

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

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(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/1143552528_1615694607.20/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/io/ContextResource.java
* /opt/cola/permits/1143552528_1615694607.20/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/style/ValueStyler.java
* /opt/cola/permits/1143552528_1615694607.20/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/type/filter/AspectJTypeFilter.java
* /opt/cola/permits/1143552528_1615694607.20/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java
* /opt/cola/permits/1143552528_1615694607.20/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/io/support/ResourcePatternResolver.java
* /opt/cola/permits/1143552528_1615694607.20/spring-core-3-2-8-release-sources-4-jar/org/springframework/util/PatternMatchUtils.java
* /opt/cola/permits/1143552528_1615694607.20/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java
* /opt/cola/permits/1143552528_1615694607.20/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/io/support/ResourcePatternResolver.java
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  jar/org/springframework/core/io/ClassRelativeResourceLoader.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
  jar/org/springframework/core/style/ToStringStyler.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-
  jar/org/springframework/core/io/ClassPathResource.java
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  jar/org/springframework/util/xml/SimpleNamespaceContext.java
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* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/type/classreading/ClassMetadataReadingVisitor.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/OverridingClassLoader.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/util/PropertiesPersister.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/env/CompositePropertySource.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/convert/converter/ConverterFactory.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/convert/converter/Converter.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/convert/support/ObjectToObjectConverter.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/util/Comparator/NullSafeComparator.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/io/ByteArrayResource.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/io/WritableResource.java
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* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/CollectionFactory.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/enums/AbstractGenericLabeledEnum.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/io/ByteArrayResource.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/io/WritableResource.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
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* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/OrderComparator.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/SpringVersion.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/serializer/DefaultSerializer.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/type/StandardMethodMetadata.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/serializer/DefaultDeserializer.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/AttributeAccessor.java
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* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/style/ToStringCreator.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4.jar/org/springframework/core/ParameterNameDiscoverer.java
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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/ConfigurableConversionService.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/convert/FieldDescriptor.java
* /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/CommandLineArgs.java
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* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/convert/converter/ConverterRegistry.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/convert/support/StringToNumberConverterFactory.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/PriorityOrdered.java
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* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/env/EnvironmentCapable.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/io/support/EncodedResource.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/util/MethodInvoker.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/util/ObjectUtils.java
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* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/env/ReadOnlySystemAttributesMap.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/io/UrlResource.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/JdkVersion.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/classreading/MethodMetadataReadingVisitor.java
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* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/env/EnvironmentCapable.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/io/support/EncodedResource.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/util/MethodInvoker.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/util/ObjectUtils.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/env/PropertiesPropertySource.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/env/ReadOnlySystemAttributesMap.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
* /opt/cola/permits/1143552528_1615694607.2/0/spring-core-3-2-8-release-sources-4-jar/org/springframework/core/io/UrlResource.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.
 */

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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/LinuxSocket.java
* /opt/cola/permits/1151111157_1617788599.59/0/netty-transport-native-epoll-4-1-47-final-sources-4-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1151111157_1617788599.59/0/netty-transport-native-epoll-4-1-47-final-sources-4-jar/netty_epoll_linuxsocket.h
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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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  jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1151111157_1617788599.59/0/netty-transport-native-epoll-4-1-47-final-sources-4-
  jar/io/netty/channel/epoll/EpollEventArray.java
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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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(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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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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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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(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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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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1.187 bc 1.06

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/* number.c: Implements arbitrary precision numbers. */
/*

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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. */
bc_num _zero_;  
bc_num _one_;  
bc_num _two_;  
static bc_num _bc_Free_list = NULL;

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

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

/* "Frees" a bc_num NUM. Actually decreases reference count and only
frees the storage if reference count is zero. */

void
bc_free_num (num)
    bc_num *num;
{
    if (*num == NULL) return;
    (*num)->n_refs--;
    if ((*num)->n_refs == 0) {
        if ((*num)->n_ptr)
            free ((*num)->n_ptr);
        (*num)->n_next = _bc_Free_list;
        _bc_Free_list = *num;
    }
    *num = NULL;
}

/* Initialize the number package! */

void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
    _one_  = bc_new_num (1,0);
    _one_->n_value[0] = 1;
    _two_  = bc_new_num (1,0);
    _two_->n_value[0] = 2;
/* Make a copy of a number! Just increments the reference count! */

bc_num
bc_copy_num (num)
    bc_num num;
{
    num->n_refs++;
    return num;
}

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

void
bc_init_num (num)
    bc_num *num;
{
    *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM. 
_bc_rm_leading_zeros just moves the data "value" pointer to the 
correct place and adjusts the length. */

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

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

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

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

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

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

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

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

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

int
bc_compare (n1, n2)
    bc_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    bc_num num;
{
    return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

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

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

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

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

if (count != 0)
    return FALSE;
else
    return TRUE;
}
/* In some places we need to check if the number NUM is almost zero. Specifically, all but the last digit is 0 and the last digit is 1. Last digit is defined by scale. */

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

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

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

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

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

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

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

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

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

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

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

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
{
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr = BASE;
    }
    else
        carry = 0;
    sumptr--;
n1bytes--;
n2bytes--;
}
```
/* Now add carry the longer integer part. */
if (n1bytes == 0)
  { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
  {
    *sumptr = *n1ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
      carry = 1;
      *sumptr -= BASE;
    }
    else
      carry = 0;
    sumptr--;  
  }
/* Set final carry. */
if (carry == 1)
  *sumptr += 1;
/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;

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

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

  /* Allocate temporary storage. */
  diff_len = MAX (n1->n_len, n2->n_len);
  diff_scale = MAX (n1->n_scale, n2->n_scale);
  min_len = MIN  (n1->n_len, n2->n_len);
  min_scale = MIN (n1->n_scale, n2->n_scale);
  diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));
/* Zero extra digits made by scale_min. */
if (scale_min > diff_scale)
{
    diffptr = (char *) (diff->n_value + diff_len + diff_scale);
    for (count = scale_min - diff_scale; count > 0; count--)
        *diffptr++ = 0;
}

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

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

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
{
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
        *diffptr-- = *n1ptr--;
}
else
{
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
    {
        val = - *n2ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
            borrow = 0;
        *diffptr-- = val;
    }
}

/* Now do the equal length scale and integer parts. */
for (count = 0; count < min_len + min_scale; count++)
{
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
    {

/* 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;
    }
    /* 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;
}
/* 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. */
betterfree_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;
    }
}

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

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

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

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

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

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

  prodlen = n1len+n2len+1;  

  *prod = bc_new_num (prodlen, 0);  

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

  /* Here is the loop... */  
  for (indx = 0; indx < prodlen-1; indx++)  
  {  
    n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));  
    n2ptr = (char *) (n2end - MIN(indx, n2len-1));  
    while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))  
      sum += *n1ptr-- * *n2ptr++;  
    *pvptr-- = sum % BASE;  
    sum = sum / BASE;  
  }  
  *pvptr = sum;  
}
/* A special adder/subtractor for the recursive divide and conquer multiply algorithm. Note: if sub is called, accum must be larger that what is being subtracted. Also, accum and val must have n_scale = 0. (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
  signed char *accp, *valp;
  int  count, carry;

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

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

/* Recursive divide and conquer multiply algorithm.
Based on
Let u = u0 + u1*(b^n)
Let v = v0 + v1*(b^n)
Then uv = (B^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! */
bcs_free_num (&u1);
bcs_free_num (&u0);
bcs_free_num (&v1);
bcs_free_num (&m1);
bcs_free_num (&v0);
bcs_free_num (&m2);
bcs_free_num (&m3);
bcs_free_num (&d1);
bcs_free_num (&d2);
}

/* 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)
bcs_num n1, n2, *prod;
int scale;
{
bc_num pval;
int len1, len2;
int full_scale, prod_scale;

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

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

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

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

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
    int carry, value;
    unsigned char *nptr, *rptr;

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

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

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

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

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

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

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

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

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
{
    n2ptr++;
    len2--;
}

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

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

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

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

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

/* Loop */
while (qdig <= len1+scale-len2)
{
/* Calculate the quotient digit guess. */
  if (*n2ptr == num1[qdig])
    qguess = 9;
  else
    qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;
/* Test qguess. */
  if (n2ptr[1]*qguess >
      (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
      + num1[qdig+2])
    qguess--;
/* And again. */
  if (n2ptr[1]*qguess >
      (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
      + num1[qdig+2])
    qguess--;
}
/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)
{
  *mval = 0;
  _one_mult (n2ptr, len2, qguess, mval+1);
  ptr1 = (unsigned char *) num1+qdig+len2;
  ptr2 = (unsigned char *) mval+len2;
  for (count = 0; count < len2+1; count++)
  {
    val = (int) *ptr1 - (int) *ptr2-- - borrow;
    if (val < 0)
val += 10;
borrow = 1;
}
else
borrow = 0;
*ptr1-- = val;
}

/* Test for negative result. */
if (borrow == 1)
{

guess--;
ptr1 = (unsigned char *) num1+qdigit+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++ = gueass;
qdigit++;

/* 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;
_bcrem_leading_zeros (qval);
bccfree_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);
return 0; /* Everything is OK. */
}

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

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

    /* Check for correct numbers. */
    if (bc_is_zero (num2)) return -1;

    /* Calculate final scale. */
    rscale = MAX (num1->n_scale, num2->n_scale+scale);
    bc_init_num(&temp);

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

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

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

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

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

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

/* Check for correct numbers.  */
    if (bc_is_zero(mod)) return -1;
    if (bc_is_neg(expo)) return -1;

/* Set initial values.  */
    power = bc_copy_num (base);
    exponent = bc_copy_num (expo);
    temp = bc_copy_num (_one_);
    bc_init_num(&parity);

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

/* Check the exponent for scale digits.  */
    if (exponent->n_scale != 0)
    {
        bc_rt_warn ("non-zero scale in exponent");
        bc_divide (exponent, _one_, &exponent, 0); /*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) == 1) {
        calcscale = pwrscale + calcscale;
        bc_multiply (temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
}

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

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

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

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

   /* Initialize the variables. */
   rscale = MAX (scale, (*num)->n_scale);
   bc_init_num(&guess);
   bc_init_num(&guess1);
   bc_init_num(&diff);
   point5 = bc_new_num (1,1);
   point5->n_value[1] = 5;
/** Calculate the initial guess. */
if (cmp_res < 0)
{
    /* The number is between 0 and 1. Guess should start at 1. */
    guess = bc_copy_num (_one_);
    cscale = (*num)->n_scale;
}
else
{
    /* The number is greater than 1. Guess should start at 10^(exp/2). */
    bc_int2num (&guess,10);

    bc_int2num (&guess1,(num)->n_len);
    bc_multiply (guess1, point5, &guess1, 0);
    guess1->n_scale = 0;
    bc_raise (guess, guess1, &guess, 0);
    bc_free_num (&guess1);
    cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
    bc_divide (*num, guess, &guess, cscale);
    bc_add (guess, guess1, &guess, 0);
    bc_multiply (guess, point5, &guess, cscale);
    bc_sub (guess, guess1, &diff, cscale+1);
    if (bc_is_near_zero (diff, cscale))
    {
        if (cscale < rscale+1)
            cscale = MIN (cscale*3, rscale+1);
        else
            done = TRUE;
    }
}

/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess,_one_num,rscale);
bc_free_num (&guess);
bc_free_num (&guess1);
bc_free_num (&point5);
bc_free_num (&diff);
return 1;
}

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

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

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

/* A special output routine for "multi-character digits." Exactly
SIZE characters must be output for the value VAL. If SPACE is
non-zero, we must output one space before the number. OUT_CHAR
is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
    char digits[40];
    int len, ix;

    if (space) (*out_char) (' ');
    sprintf (digits, "%ld", val);
    len = strlen (digits);
    while (size > len)
    {
        (*out_char) ('0');
        size--;
    }
    for (ix=0; ix < len; ix++)
        (*out_char) (digits[ix]);
}

/* Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR

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as the routine to do the actual output of the characters. */

void
cbc_out_num (num, o_base, out_char, leading_zero)
   bc_num num;
   int o_base;
#else
   int leading_zero;
{
   char *nptr;
   int  index, fdigit, pre_space;
   stk_rec *digits, *temp;
   bc_num int_part, frac_part, base, cur_digit, 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
      {

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/* special case ... */
if (leading_zero && bc_is_zero (num))
  (*out_char) ('0');

/* The number is some other base. */
digits = NULL;
bciinit_num (&int_part);
bcdivide (num, _one_, &int_part, 0);
bciinit_num (&frac_part);
bciinit_num (&cur_dig);
bciinit_num (&base);
bcsub (num, int_part, &frac_part, 0);
/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
bciint2num (&base, o_base);
bciinit_num (&max_o_digit);
bciint2num (&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))
{
  bcmodulo (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;
bcdivide (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);
bc_free_num (&frac_part);
bc_free_num (&base);
bc_free_num (&cur_dig);
bc_free_num (&max_o_digit);
}

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

long
bc_num2long (num)
    bc_num num;
{
    val = 0;
    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++;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

/* Convert strings to bc numbers. Base 10 only.*/
void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

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

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

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

/* Build the whole number. */
    ptr = str;
    if (*ptr == '.')
    {
        (*num)->n_sign = MINUS;
        ptr++;
    }
    else
/* 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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly
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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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Written by:  Philip Hazel
Email local part: ph10
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    David Weinrich,
    Dirk Verbeeck,
    Yoav Shapira <yoavs@apache.org>,
    Phil Steitz,
    Jrg Schaible <joerg.schaible@gmx.de>,
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.
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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0f2bb5b6.

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

Author: Julio Merino <jmmv84@gmail.com>

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

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<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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<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:template>

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1.208 pyflakes 2.4.0

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1.209 e2fsprogs 1.42.13-1ubuntu1

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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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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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*/

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

- trivial database library - private includes
-
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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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This is the Debian GNU/Linux prepackaged version of the static EXT2 
file system consistency checker (e2fsck.static). The EXT2 utilities 
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card 
<card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This is the Debian GNU/Linux prepackaged version of the Common Error 
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system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, 
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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 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): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(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) $(BSD_LIB) \$(DESTDIR)$(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 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>.

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1.212 rename 0.20-4

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NAME

File::Rename - Perl extension for renaming multiple files

SYNOPSIS

use File::Rename qw(rename);# hide CORE::rename
rename @ARGV, sub { s/\.pl\z/.pm/ }, 1;

use File::Rename;
File::Rename::rename @ARGV, '$_ = lc';
rename FILES using CODE,
if FILES is empty read list of files from stdin

rename FILES using CODE

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>.

=item B<show_help>

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)
AUTHOR

Robin Barker <RMBarker@cpan.org>

Acknowledgements

Based on code from Larry Wall.

Options B<-e>, B<-f>, B<-n> suggested by more recent code written by Aristotle Pagaltzis.

DIAGNOSTICS

Errors from the code argument are not trapped.

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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/lib/File/Rename.pm

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

---

abstract: 'Perl extension for renaming multiple files'
author: - 'Robin Barker <RMBarker@cpan.org>'
build_requires: File::Temp: 0 Test::More: 0
configure_requires: Module::Build: 0.38
dynamic_config: 1
generated_by: 'Module::Build version 0.4005, CPAN::Meta::Converter version 2.112621'
license: perl
meta-spec: url: http://module-build.sourceforge.net/META-spec-v1.4.html version: 1.4
name: File-Rename
provides: File::Rename:
File::Rename::Options:
  file: lib/File/Rename.pm
  version: 0

recommends:
  File::Spec: 0.82
  Getopt::Long: 2.24
  Test::Pod: 0
  Test::Pod::Coverage: 0

requires:
  Getopt::Long: 0
  perl: 5

resources:
  license: http://dev.perl.org/licenses/
  version: 0.20

Found in path(s):
  * /opt/cola/permits/1136205553_1613708317.37/0/rename-0-20-orig-1-tar-gz/File-Rename-0.20/META.yml

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

File-Rename version 0.20

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

1.213 libdnet 1.0.1

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#define UV_PLATFORM_FS_EVENT_FIELDS
    uv__io_t event_watcher;

#endif
#define UV_IO_PRIVATE_PLATFORM_FIELDS
    int rcount;
    int wcount;
#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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1.220 bsd-mailx 14.8.6

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This package was debianized by Arthur Korn <arthur@korn.ch> on Sat, 20 Jan 2001 16:28:10 +0100.

As of Tue, 29 Apr 2003 02:13:58 +0200, this package is maintained by Hilko Bengen <bengen@debian.org>.

The sources were downloaded from http://heirloom.sourceforge.net/
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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:
partially derived from sample code in:

/*
 * GSS-API Programming Guide
 * Part No: 816-1331-11
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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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1.221 slang 2.3.0 2ubuntu1

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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/* zlib.h -- interface of the 'zlib' general purpose compression library
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    cmd/krb5/kadmin/server/ipropd_svc.c
    cmd/krb5/kproplog/kproplog.c
    cmd/krb5/slave/kropd_rpc.c
    lib/gss_mechs/mech_krb5/et/kdb5_err.c
    lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
    lib/gss_mechs/mech_spnego/mach/spnego_mach.c
    lib/krb5/kadm5/kadm_host_srv_names.c
    lib/krb5/kdb/kdb_convert.c
    lib/krb5/kdb/kdb_hdr.h
    lib/krb5/kdb/kdb_log.c
    lib/krb5/kdb/kdb_log.h
    lib/libgss/g_accept_sec_context.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/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:

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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* 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 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.

Author: Julio Merino <jmmv84@gmail.com>

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  <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:stylesheet>
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1.266 jackson-annotations 2.10.3

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src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
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1.286 json-smart 2.3

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* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONNavi.java
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* /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/JSONAwareEx.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONValue.java
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1.287 lcms 2.6-3ubuntu2

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1.288 python-whisper 0.9.15-1
1.288.1 Available under license :

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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/
Author: Chris Davis
Author-email: chrismd@gmail.com
License: Apache Software License 2.0
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1.289 commons-compress 1.8

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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.>
Copyright (C) 19yy  <name of author>

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This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of
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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) 19yy 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 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

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

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package,
while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

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"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

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b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

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The End

1.298 kerby-config 2.0.0

1.298.1 Available under license:

Kerby Config
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1.299 c3p0 0.9.5.4

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1.300 atk 2.18.1-2ubuntu1

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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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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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## 1.307 idna 2.0

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Found in path(s):
* `/opt/cola/permits/1127084417_1611785502.92/0/kjd-idna-v2-0-0-gbb6e94c-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 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
import sys
from setuptools import setup
import io

version = "2.0"

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',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
    }
```
1.308 ansi 0.1.3

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1.309 jackson-xc 2.4.5

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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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### 1.310 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
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1.311 libtext-iconv-perl 1.7-5build4

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It is currently maintained by Anibal Monsalve Salazar <anibal@debian.org>.
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1.312 codegangsta-negroni 1.0.0

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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
 */

Found in path(s):
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/util/security/Constraint.java

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/**
 * 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
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 * @(#)UnixCrypt.java 0.9 96/11/25
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* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3.jar/org/eclipse/jetty/util/Callback.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3.jar/org/eclipse/jetty/util/ssl/AliasedX509KeyManager.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3.jar/org/eclipse/jetty/util/LeakDetector.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3.jar/org/eclipse/jetty/util/component/ContainerLifeCycle.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3.jar/org/eclipse/jetty/util/StringUtil.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3.jar/org/eclipse/jetty/util/MultiMap.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-
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jar/org/eclipse/jetty/util/QuotedStringTokenizer.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/util/component/Destroyable.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/util/B64Code.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/util/log/JavaUtilLog.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/util/ssl/SslContextFactory.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/util/annotation/ManagedObject.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/util/package-info.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/util/preventers/DriverManagerLeakPreventer.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/util/IPAddressMap.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/util/statistic/SampleStatistic.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/util/package-info.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/util/preventers/AppContextLeakPreventer.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3-jar/org/eclipse/jetty/util/URIUtil.java
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* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3.jar/org/eclipse/jetty/util/Loader.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3.jar/org/eclipse/jetty/util/preventers/AWTLeakPreventer.java
* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3.jar/org/eclipse/jetty/util/log/Logger.java
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* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3.jar/org/eclipse/jetty/util/preventers/AbstractLeakPreventer.java
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* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3.jar/org/eclipse/jetty/util/AttributesMap.java
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* /opt/cola/permits/1151111188_1617788608.0/0/jetty-util-9-1-4-v20140401-sources-3.jar/org/eclipse/jetty/Util/MultiPartWriter.java
1.314 slf4j 1.6.1

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1.315 cracklib 2.9.2-1build2

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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.

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.

^L
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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<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.

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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
=20
=20

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> r=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.=20
=20
thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
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
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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
From: Devin Reade <gdr@g...> - 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
> > 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
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 spunky-mail.mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
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

--- 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
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
License: LGPL-2.1
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obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

1.316 p11-kit 0.23.2-5~ubuntu16.04.2
1.316.1 Available under license:
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1.317 jersey-media-jaxb 2.22.2

1.318 packaging 17.1

1.318.1 Available under license:

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Version 2.0, January 2004
http://www.apache.org/licenses/

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^L

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

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1.325 python-setuptools 20.7.0
1.325.1 Available under license :

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

License :: OSI Approved :: MIT License

Found in path(s):
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20-7-0-1-tar-gz/setuptools-20.7.0/setup.py
No license file was found, but licenses were detected in source scan.

# This file is dual licensed under the terms of the Apache License, Version
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/packaging/requirements.py
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20.7-0-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/__about__.py
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20.7-0-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/__init__.py
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20.7-0-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/version.py
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20.7-0-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/utils.py
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20.7-0-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/markers.py
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20.7-0-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/_compat.py
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20.7-0-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/specifiers.py
* /opt/cola/permits/1113224970_1607387370.26/0/setuptools-20.7-0-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/_structures.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

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

.. 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.
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::

```bash
> (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::

```bash
> (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::

```bash
> (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 `*.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::

```
> 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 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
---------------

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
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.

.. _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

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.. _ez_setup.py: `bootstrap module`

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Developer's Guide
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

Setup tools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setup tools 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:
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.

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`.

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.

List of doctest source files that need to be converted with 2to3. See :doc:`python3` for more details.

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:

    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
"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, \n    ==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.::
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.

(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 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 the 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 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
======================================

.. _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:

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```
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:

```python
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
============================================

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:

```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 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
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
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::

```bash
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.::

```bash
python setup.py alias -u release egg_info -RDb ""
```

You can then use it like this::

```bash
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

```bash
define_aliases aliasname
```

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=\n--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:

```bash
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.:

```bash
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:

``--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-svn-revision` as an argument to the `egg_info` command.

```
--tag-svn-revision, -r
```
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.

```
--no-svn-revision, -R
```
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`.

```
--tag-date, -d
```
Add a date stamp of the form `-YYYYMMDD` (e.g. `-20050528`) to the project's version number.

```
--no-date, -D
```
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 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:

``--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*. 

---

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``--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::

    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:

``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 ``-r`` or ``--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 [here](https://docs.python.org/3.1/distutils/uploading.html) in distutils.

Setuptools augments the `upload` command with support for `keyring` ([here](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::

```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` 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": [
```
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 = '
'.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 ``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:
.. code-block:: 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::

    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/1113224970_1607387370.26/0/setuptools-20-7-0-1-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/1113224970_1607387370.26/0/setuptools-20-7-0-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/six.py

1.326 jackson-annotations 2.9.8

1.326.1 Available under license:
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1.327 pangox-compat 0.0.2-5

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

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1.328 perl 5.22.1-9ubuntu0.6
1.328.1 Available under license:

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

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

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---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
buildRequires:
  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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    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
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    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';
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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.>
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!

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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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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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* 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/ci.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c9f2bb5b6,  

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

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1.339 ssh-import-id 5.5 0ubuntu1

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1.340 libgnome 2.32.1-5ubuntu1

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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 3a0982da308228d796df35f98d787c5cffe2bb5b6.

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

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
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1.344 cffi 1.10.0

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1.345 libgd 2.0.36~rc1~dfsg-6ubuntu2

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1.345.2 Available under license:

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

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

IJG is not affiliated with the official ISO JPEG standards committee.

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.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjjpeg, djjpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.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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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, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

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.

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."

REFERENCES
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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...


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
open source used in hyperflex hx data platform 5.0(2a) 3667

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
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

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
send usenet/news.answers/jpeg-faq/part2

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
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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Although their code does not appear in the current release, the authors wish to thank David Koblas, David Rowley, and Hutchison Avenue Software Corporation for their prior contributions.

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1.350 jetty-servlet 9.4.24.v20191120

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

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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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
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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Upstream Authors:

Anthony Green <green@redhat.com>
GCC developers
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1.353 ntp 4.2.8p4+dfsg-3ubuntu5.10

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This package is maintained for Debian by:

Bruce Walker <w1bw@debian.org>
Bdale Garbee <bdale@gag.com>
Matthias Urlichs <smurf@debian.org>
Peter Eisentraut <petere@debian.org>
Kurt Roeckx <kurt@roeckx.be>

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<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark Andrews</td>
<td><a href="mailto:mark_andrews@isc.org">mark_andrews@isc.org</a></td>
<td>Leitch atomic clock controller</td>
</tr>
<tr>
<td>Bernd Altmeier</td>
<td><a href="mailto:altmeier@atsoft.de">altmeier@atsoft.de</a></td>
<td>hopf Elektronik serial line and PCI-bus devices</td>
</tr>
<tr>
<td>Viraj Bais</td>
<td><a href="mailto:vbais@mailman1.intel.com">vbais@mailman1.intel.com</a></td>
<td>and Clayton Kirkwood port to WindowsNT 3.5</td>
</tr>
<tr>
<td>Michael Barone</td>
<td><a href="mailto:michael.barone@lmco.com">michael.barone@lmco.com</a></td>
<td>GPSVME fixes</td>
</tr>
<tr>
<td>Jean-Francois Boudreault</td>
<td><a href="mailto:Jean-Francois.Boudreault@viagenie.qc.ca">Jean-Francois.Boudreault@viagenie.qc.ca</a></td>
<td>IPv6 support</td>
</tr>
<tr>
<td>Karl Berry</td>
<td><a href="mailto:karl@owl.HQ.ileaf.com">karl@owl.HQ.ileaf.com</a></td>
<td>syslog to file option</td>
</tr>
<tr>
<td>Greg Brackley</td>
<td><a href="mailto:greg.brackley@bigfoot.com">greg.brackley@bigfoot.com</a></td>
<td>Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.</td>
</tr>
<tr>
<td>Marc Brett</td>
<td><a href="mailto:Marc.Brett@westgeo.com">Marc.Brett@westgeo.com</a></td>
<td>Magnavox GPS clock driver</td>
</tr>
<tr>
<td>Piete Brooks</td>
<td><a href="mailto:Piete.Brooks@cl.cam.ac.uk">Piete.Brooks@cl.cam.ac.uk</a></td>
<td>MSF clock driver, Trimble PARSE support</td>
</tr>
<tr>
<td>Reg Clemens</td>
<td><a href="mailto:reg@dwf.com">reg@dwf.com</a></td>
<td>Oncore driver (Current maintainer)</td>
</tr>
<tr>
<td>Steve Clift</td>
<td><a href="mailto:sc@ml.csiro.au">sc@ml.csiro.au</a></td>
<td>OMEGA clock driver</td>
</tr>
<tr>
<td>Casey Crellin</td>
<td><a href="mailto:casey@csc.co.za">casey@csc.co.za</a></td>
<td>vxWorks (Tornado) port and help with target configuration</td>
</tr>
<tr>
<td>Sven Dietrich</td>
<td><a href="mailto:sven_dietrich@trimble.com">sven_dietrich@trimble.com</a></td>
<td>Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.</td>
</tr>
<tr>
<td>John A. Dundas III</td>
<td><a href="mailto:dundas@salt.jpl.nasa.gov">dundas@salt.jpl.nasa.gov</a></td>
<td>Apple A/UX port</td>
</tr>
<tr>
<td>Torsten Duwe</td>
<td><a href="mailto:duwe@immd4.informatik.uni-erlangen.de">duwe@immd4.informatik.uni-erlangen.de</a></td>
<td>Linux port</td>
</tr>
<tr>
<td>Dennis Ferguson</td>
<td><a href="mailto:dennis@mrbill.canet.ca">dennis@mrbill.canet.ca</a></td>
<td>foundation code for NTP Version 2 as specified in RFC-1119</td>
</tr>
<tr>
<td>John Hay</td>
<td>jhay@@icomtek.csir.co.za</td>
<td>IPv6 support and testing</td>
</tr>
<tr>
<td>Glenn Hollinger</td>
<td><a href="mailto:glenn@herald.usask.ca">glenn@herald.usask.ca</a></td>
<td>GOES clock driver</td>
</tr>
<tr>
<td>Mike Iglesias</td>
<td><a href="mailto:iglesias@uci.edu">iglesias@uci.edu</a></td>
<td>DEC Alpha port</td>
</tr>
<tr>
<td>Jim Jagielski</td>
<td><a href="mailto:jim@jagubox.gsfc.nasa.gov">jim@jagubox.gsfc.nasa.gov</a></td>
<td>A/UX port</td>
</tr>
<tr>
<td>Jeff Johnson</td>
<td><a href="mailto:jbj@chatham.usdesign.com">jbj@chatham.usdesign.com</a></td>
<td>massive prototyping overhaul</td>
</tr>
<tr>
<td>Hans Lambermont</td>
<td><a href="mailto:Hans.Lambermont@nl.origin-it.com">Hans.Lambermont@nl.origin-it.com</a></td>
<td>ntpswipe</td>
</tr>
<tr>
<td>Poul-Henning Kamp</td>
<td><a href="mailto:phk@FreeBSD.ORG">phk@FreeBSD.ORG</a></td>
<td>Oncore driver (Original author)</td>
</tr>
<tr>
<td>Frank Kardel</td>
<td>kardel (at) ntp (dot) org</td>
<td>PARSE &lt;GENERIC&gt; driver (&gt;14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</td>
</tr>
<tr>
<td>William L. Jones</td>
<td><a href="mailto:jones@hermes.chpc.utexas.edu">jones@hermes.chpc.utexas.edu</a></td>
<td>RS/6000 AIX modifications, HPUX modifications</td>
</tr>
<tr>
<td>Dave Katz</td>
<td><a href="mailto:dkatz@cisco.com">dkatz@cisco.com</a></td>
<td>RS/6000 AIX port</td>
</tr>
<tr>
<td>Craig Leres</td>
<td><a href="mailto:leres@ee.lbl.gov">leres@ee.lbl.gov</a></td>
<td>4.4BSD port, ppsclock, Magnavox GPS clock driver</td>
</tr>
<tr>
<td>George Lindholm</td>
<td><a href="mailto:lindholm@ucs.ubc.ca">lindholm@ucs.ubc.ca</a></td>
<td>SunOS 5.1 port</td>
</tr>
<tr>
<td>Louis A. Mamakos</td>
<td><a href="mailto:louie@ni.umd.edu">louie@ni.umd.edu</a></td>
<td>MD5-based authentication</td>
</tr>
<tr>
<td>Lars H. Mathiesen</td>
<td><a href="mailto:thorinn@diku.dk">thorinn@diku.dk</a></td>
<td>adaptation of foundation code for Version 3 as specified in RFC-1305</td>
</tr>
</tbody>
</table>
31. Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
32. David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers:
   Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics;
   audio clock drivers: CHU, WWV/H, IRIG
33. Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
34. Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
35. Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
36. Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
37. Derek Mulcahy <derek@toybox.demon.co.uk> and Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
38. Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
   monitoring/trap scripts, statistics file handling
39. Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
40. Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
41. Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
42. Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
43. Ray Schnitzler <schnitz@unipress.com> Unixware1 port
44. Michael Shields <shields@tembel.org> USNO clock driver
45. Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
46. Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
   makeover, various other bits (see the ChangeLog)
47. Kenneth Stone <ken@sdd.hp.com> HP-UX port
48. Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
49. Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
50. Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
51. Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.359 cpio 2.11+dfsg 5ubuntu1.1

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***********************************************************************

The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsol.de> hopf Elektronik serial line and PCI-bus devices
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8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 3771
21. [22] Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23] Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26] Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping
   overhaul
26. [27] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
   <H.Lambermont@chello.nl> ntpsweep
27. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original
   author)
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   scripts, syslog cleanup, dynamic interface handling
29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to
   comply with NTPv4 specification, ntpq saveconfig
30. [33] William L. Jones <jones@herrmes.chpc.utexas.edu> RS/6000 AIX
   modifications, HPUX modifications
31. [34] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
   GPS clock driver
33. [36] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
   code for Version 3 as specified in RFC-1305
   Maintenance
37. [40] David L. Mills <mills@udel.edu> Version 4 foundation, precision
   kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41] Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.nrc.com> i386 svr4 port
41. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon
   Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code
   maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
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45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
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47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
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49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
   makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atsoft.de
4. mailto:%20vbais@mailman1.intel.co
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
8. mailto:%20greg.brackley@bigfoot.com
9. mailto:%20Marc.Brett@westgeo.com
10. mailto:%20Piete.Brooks@cl.cam.ac.uk
11. mailto:%20nelson@bolyard.me
12. mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto:%20reg@dwf.com
14. mailto:%20clift@ml.csiro.au
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1.363 slf4j-log4j 1.7.0

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1.364 commons-codec 1.4

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1.370 jctools-core 3.0.0
1.370.1 Available under license :
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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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<url>https://github.com/JCTools</url>
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* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
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* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/linkedUnsafeAccess.java
1.371 scala 2.12.11

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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) => 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. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
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10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete
    broadcast and crypto features in sntp
11. [12] Jean-Francois Boudreault
    <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13] Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14] Steve Clift <clift@nl.csiro.au> OMEGA clock driver
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    port
18. [19] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for
    NTP Version 2 as specified in RFC-1119
19. [20] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21] Dave Hart <davehart@davehart.com> General maintenance, Windows
    port interpolation rewrite
21. [22] Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23] Glenn Hollinger <glen@herald.usask.ca> GOES clock driver
23. [24] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
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26. [27] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
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    author)
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    comply with NTPv4 specification, ntpq saveconfig
30. [33] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX
    modifications, HPUX modifications
31. [34] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
    GPS clock driver
33. [36] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
    code for Version 3 as specified in RFC-1305
36. [39] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40] David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41] Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
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49. [53] Ray Schnitzler <schnitz@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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53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
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1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atlsoft.de
4. mailto:%20vba@vix.com
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
8. mailto:%20greg.brackley@bigfoot.com
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*uganda.txt*  For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iccf* *ICCF*

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

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

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

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation
then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

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

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

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

=== end of license ===

Note:

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

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

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

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

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

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

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

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

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

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them
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.
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: https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is: Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

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

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

This address is expected to be valid for a long time.
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
efficiency 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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Arnaud LE HORS    BULL Research FRANCE -- Koala Project
                (XPM - X PixMap format version 2 & 3)
                Internet: lehors@sophia.inria.fr
Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
                2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you 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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Adam Azarchs <adam.azarchs@10xgenomics.com>
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Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O’Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aeciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <phpproger@google.com>
Agis Anastasopoulos <agis.anast@gmail.com>
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Al Cutter <al@google.com>
Alan Braithwaite <alan@ipaddr.org>
Alan Donovan <adonovan@google.com>
Alan Shreve <alan@inconshreveable.com>
Albert Nigmatzianov <albertnigma@gmail.com>
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Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Orlov <alexander.orlov@loxal.net>
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Alexander Poleyn <apolcyn@gmail.com>
Alexander Rakoczy <alex@golang.org>
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Alexander Surma <surma@surmair.de>
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awaw fumin <awawfumin@gmail.com>
Awn Umar <awn@cryptolosophy.io>
Axel Wagner <axel.wagner.hh@googlemail.com>
Ayanamist Yang <ayanamist@gmail.com>
Aymeric Jhanne <aymeric@jehanne.org>
Azat Kaumov <kaumov.a.r@gmail.com>
Baiju Muthukadan <baiju.m.mail@gmail.com>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@google.com>
Dan Jacques <dnj@gmail.com>
Dan Johnson <computerdruid@google.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Cormier <danielc@knowbe4.com>
Danil de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingramds@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Langner <s8572327@gmail.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Lublin <daniel@lublin.se>
Daniel Mart <mvdan@mvdan.cc>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@google.com>
Daniel Nephin <dnephin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daniela Petruzalek <daniela.petruzalek@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymond <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darren Grant <darren.e.grant@gmail.com>
Darren McCleary <darren.mc@gmail.com>
Darshan Parajuli <parajulidarshan@gmail.com>
Datong Sun <dndx@idndx.com>
Dave Borowitz <dborowitz@gmail.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <grijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Russell <forfuncake@gmail.com>
David Anderson <danderson@gmail.com>
David Barnett <dbarnett@gmail.com>
David Benjamin <davidben@gmail.com>
David Brophy <dave@brophy.uk>
Open Source Used In HyperFlex HX Data Platform 5.0(2a)
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 3944

Francesc Campoy <campoy@golang.org>
Francesco Renzi <rentziass@gmail.com>
Francisco Claude <fcclaude@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscosouza@gmail.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <fsomers@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>
Frits van Bommel <fvbommel@gmail.com>
Fumitoshi Ukai <ukai@google.com>
G. Hussain Chinoy <ghchinoy@gmail.com>
Gaal Yahas <gaal@google.com>
Gabrel Arthr Ptursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Guzman <gabe.guzman@gmail.com>
Gabriel Nelle <tehsphinx@web.de>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Russell <gbr@endpoint.events>
Gareth Paul Jones <gpj@foursquare.com>
Garret Kelly <gdk@gmail.com>
Garrick Evans <garrick@gmail.com>
Gary Burd <gary@beagledreams.com> <g.burd@gmail.com>
Gary Elliott <garyelliott@gmail.com>
Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Gauthier Jolly <gauthier.jolly@gmail.com>
Geert-Johan Riemer <jr19912@gmail.com>
Genevieve Luyt <genevieve.luyt@gmail.com>
Gengtian Wang <ltnwgl@gmail.com>
Geoff Berry <gberry.qdt@qualcommdatacenter.com>
Geoffroy Lorieux <lorieux.g@gmail.com>
Geon Kim <geon0250@gmail.com>
Georg Reinke <gueffey@gmail.com>
George Gkirtsou <ggkirtsou@gmail.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gergely Brautigam <skarlso777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
Getulio Sanchez <valentin2507@gmail.com>
Gianguido Sora` <g.sora4@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Joe Poirier <jdpoirier@gmail.com>
Joe Richey <joerichey@google.com>
Joe Shaw <joe@joeshaw.org>
Joe Sylve <joe.sylve@gmail.com>
Joe Tsai <joetsai@digital-static.net>
Joel Sing <joel@sing.id.au> <jsing@google.com>
Jol Stemmer <jstemmer@google.com>
Joel Stemmer <stemmertech@gmail.com>
Joey Geiger <jgeiger@users.noreply.github.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
Johan Euphosine <proppy@google.com>
Johan Sageryd <j@1616.se>
John Ansmuth <jasmuth@gmail.com>
John Beisley <huin@google.com>
John C Barstow <jbowtie@amathaine.com>
John DeNero <denero@google.com>
John Dethridge <jcd@golang.org>
John Gibb <johngibb@gmail.com>
John Gilik <john@gilik.com>
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>
John Howard Palevich <jack.palevich@gmail.com>
John Jeffery <jeffery@sp.com.au>
John Jenkins <twodopeshangy@gmail.com>
John Leidegren <john.leidegren@gmail.com>
John Moore <johnkenneth.moore@gmail.com>
John Newlin <jnewlin@google.com>
John Potocny <johnp@vividcortex.com>
John R. Lenton <jleton@gmail.com>
John Schnake <schnake.john@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
John Weldon <johnweldon4@gmail.com>
Johnny Luo <johnnyluo1980@gmail.com>
Jon Chen <jchen@justin.tv>
Jonas Bernoulli <jonas@bernoul.li>
Jonathan Allie <jonallie@google.com>
Jonathan Amsterdam <jba@google.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Chen <djonkitchen@users.noreply.github.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hsu <jhsu@gmail.com>
Jonathan Mark <jmark@xenops.com> <jhmark000@gmail.com>
Jonathan Nieder <jrn@gmail.com>
Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@gmail.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
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Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jonathon Lacher <jonathon.lacher@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kieft <ikoja@gmail.com> <joop@kiefte.net>
Jordan Krag <jmank88@gmail.com>
Jordan Lewis <jordanthelew@gmail.com>
Jordan Liggitt <jliggitt@gmail.com>
Jordan Rhee <jordanrh@microsoft.com>
Jordi Martin <jordimartin@gmail.com>
Jorge Araya <jorgejavieran@yahoo.com.mx>
Jos Visser <josv@google.com>
Jose Luis Vzquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jeb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleeker Snyder <josharian@gmail.com>
Josh Chorlton <jchorldon@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@gmail.com>
Josh Holland <jrh@joshh.co.uk>
Josh Roppo <jshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jcjoshuaachase@gmail.com>
Joshua M. Clulow <josh.clulow@joyent.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <jostein@solidsystem.no>
JP Sugarbroad <jpsugar@gmail.com>
JT Olds <jtoolds@xnet5.com>
JT Olio <hello@jtolio.com>
Juan Carlos <juancs@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judepereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekk@gmail.com>
Julia Hansbrough <flowerack@gmail.com>
Julian Kornberger <jkgithub@digineo.de>
Julian Pastarmov <pastarmovj@gmail.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kauffmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julio Montes <julio.montes@intel.com>
Junda Liu <junda@celer.network>
Jungho Ahn <jhanh@gmail.com>
Kenny Grant <kennygrant@gmail.com>
Kenta Mori <zoncoen@gmail.com>
Ketan Parmar <ketanbparmar@gmail.com>
Kevin Ballard <kevin@sb.org>
Kevin Burke <kev@inburke.com>
Kevin Gillette <extemporalgenome@gmail.com>
Kevin Kirsch <kev.kirsch@gmail.com>
Kevin Klues <klueska@gmail.com> <klueska@gmail.com>
Kevin Malachowski <chowski@gmail.com>
Kevin Ruffin <kruffin@gmail.com>
Kevin Vu <kevin.m.vu@gmail.com>
Kevin Zita <bleedgreenandgold@gmail.com>
Kieran Colford <kieran@kcolford.com>
Kim Shrier <kshtier@racktopsystems.com>
Kim Yongbin <kybinz@gmail.com>
Kir Kolyshkin <kolyshkin@gmail.com>
Kirill Motkov <Motkov Kirill@gmail.com>
Kirill Smelkov <kirk@nexedi.com>
Kirk Han <kirk91.han@gmail.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
Klaus Post <klauspost@gmail.com>
Kodie Goodwin <kodiegoodwin@gmail.com>
Koichi Shiraishi <zchee.io@gmail.com>
Koki Ide <niconegoto@yahoo.co.jp>
Komu Wairagu <komuw05@gmail.com>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Kris Kwiatkowski <kris@cloudflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@gmail.com>
Kristopher Watts <traetox@gmail.com>
Kshitij Saraogi <kshitijsaraogi@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@gmail.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais/google.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrylo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a)  3955

Lann Martin <lannm@google.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flor.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonardo Comelli <leonardo.comelli@gmail.com>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@google.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Rieppolo <luigi.rieppolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakravec <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luka Champine <luka.champine@gmail.com>
Luke Curley <quingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Open Source Used in HyperFlex HX Data Platform 5.0(2a) 3958
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 3965
Open Source Used in HyperFlex HX Data Platform 5.0(2a) 3967

Salmn Aljammz <s@0x65.net>
Sam Arnold <sarnold64@bloomberg.net>
Sam Boyer <tech@samboyer.org>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic.google.com>
Sami Pnknen <sami.ponkanen@gmail.com>
Samuel Kelemen <SCKelemen@users.noreply.github.com>
Samuel Tan <samueltan@gmail.com>
Samuele Pedroni <pedronis@lucediurna.net>
Sander van Harmelen <sander@vanharmelen.nl>
Sanjay Menakuru <balasanjay@gmail.com>
Santhosh Kumar Tekuri <santhosh.tekuri@gmail.com>
Sarah Adams <shadams@lun.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@lun.com>
Sasha Sobol <sasha@scaledinf.com>
Scott Barron <scott.barron@gmail.com>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scott@fmg.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@lun.com>
Scott Schwartz <scott@lun.org>
Scott Van Woudenberg <scottvph@lun.com>
Sean Burford <sburford@lun.com>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <sean@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@lun.nl>
Sebastian Schmidt <yath@gone.nl>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Skorobogatov <skoroba@rambler.ru>
Sergei Zagurskii <gvozdoder@gmail.com>
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arsiev@intel.com>
Sergey Dobrodey <sergey.dobredey@synesis.ru>
Sergey Frolov <sfrolov@gmail.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 3971

Tim Wright <tenortim@gmail.com>
Tim Xu <xiaoxubeii@gmail.com>
Timo Savola <timo.savola@gmail.com>
Timo Truyts <alkaloid.btx@gmail.com>
Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@google.com>
Tobias Assarsson <tobias.assarsson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>
Tobias Krauser <tkrauser@distanz.ch>
Toby Burress <kurtin@gmail.com>
Todd Kulesza <tkulesza@gmail.com>
Todd Neal <todd@tneal.org>
Todd Wang <toddwang@gmail.com>
Tom Anthony <git@tomanthony.co.uk>
Tom Bergan <tombergan@gmail.com>
Tom Heng <zhm20070928@gmail.com>
Tom Lanyon <tomlanyon@gmail.com>
Tom Levy <tomlevy93@gmail.com>
Tom Limoncelli <tal@whatexit.org>
Tom Linford <tomlinford@gmail.com>
Tom Payne <twpayne@gmail.com>
Tom Szymanski <tgs@gmail.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tommy Schaefer <tommy.schaefer@tecom.com>
Tomoya Ishizaki <zaq1tomo@gmail.com>
Tonis Tiigi <tonistiigi@gmail.com>
Tony Reix <tony.reix@bull.net>
Tony Walker <walkert.uk@gmail.com>
Tooru Takahashi <tooru.takahashi134@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshihiro Shiino <shiino.toshihiro@gmail.com>
Toshibo Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <tamini01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fn.lc>
Troels Thomsen <troels.thomsen.io>
Trung Nguyen <trung.n.k@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuo@google.com>
Tyler Bui-Palsulich <tpalsulich@google.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Udalov Max <re.udalov@gmail.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangiparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
VadimVygonets <unixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Valentin Vidic <vvivic@valentin-vidic.from.hr>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturaev <vrearutop@gmail.com>
Victor Chudnovsky <vchudnov@google.com>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@gmail.com>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vino Rajashekar <vinutheraj@gmail.com>
Vish Subramanian <vish@google.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara R <r.visweswara@gmail.com>
Vitor De Mario <vitordemario@gmail.com>
Vivek Sekhar <vsekhar@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Kopyak <en007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenko <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotski <vpaprots@ca.ibm.com>
W. Trevor King <wking@tremily.us>
Wade Simmons <wade@wades.im>
Wagner Riffel <wgriffel@gmail.com>
Walter Poupore <wpoupore@gmail.com>
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1.385 popt 1.16 10
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1.386 simplejson 3.8.1-1ubuntu2
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1.387 vim 7.4.1689-3ubuntu1.5

1.388 pygments 2.11.2

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'# New ports collection makefile for:    python25
' Comment

'# Date created:         3 July 2003
' Comment

' Comment

'"n'   Text

'PORTNAME' Name.Variable
'=' Operator
'PORTVERSION' Name.Variable
'=' Operator
'2' Literal.Number
'.5.1' Text

'CATEGORIES' Name.Variable
'=' Operator
'lang' Text
'python' Text
'ipv6' Text

'MASTER_SITES' Name.Variable
'=' Operator
'

'MASTER_SITE_SUBDIR' Name.Variable
'=' Operator
'

'DISTFILES' Name.Variable
'=' Operator
'

'MAINTAINER' Name.Variable
COMMENT = Operator
'=' Text
'python@FreeBSD.org' Text
'
' Text

'An' Text
'
' Text
'interpreted' Text
'
' Text
'object-oriented' Text
'
' Text
'programming' Text
'
' Text
'language' Text
'
' Text

'An' Text

'DIST_SUBDIR' = Operator
'
' Text
'python' Text
'
' Text

'WRKSRC' = Operator
'
' Text
'S{
' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'\}' Literal.String.Interpol
'\portbld.static' Text
'
' Text

'PATCH_WRKSRC' Name.Variable
'
' Text
'S{
' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'\}' Literal.String.Interpol
'
' Text

'GNU_CONFIGURE' Name.Variable
'
' Text
'y' Text

'y' Text
'\t'    Text
'${'    Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'    Literal.String.Interpol
'/portbld.shared' Text
'\n'    Text

'PLIST'    Name.Variable
'='    Operator
'\n\n'    Text
'${'    Literal.String.Interpol
'WRKDIR'    Name.Variable
'}'    Literal.String.Interpol
'/PLIST'    Text
'\n'    Text

'PLIST_TEMPLATE' Name.Variable
'?=    Operator
'${'    Literal.String.Interpol
'PKGDIR'    Name.Variable
'}'    Literal.String.Interpol
'/pkg-plist' Text
'\n'    Text

'PLIST_SUB'    Name.Variable
'='    Operator
'\t'    Text
'PYVER'    Name.Variable
'='    Operator
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'    Punctuation
'\S'    Name.Variable
'/python/'    Punctuation
'\n\n'    Literal.String.Escape

'\n\n'    Text
'PYVER_WITHPAT' Name.Variable
'='    Operator
'${'    Literal.String.Interpol
'PORTVERSION' Name.Variable
'}'    Punctuation
'\.'    Name.Variable
'/python/\'    Punctuation
'\'    Text
'\\n'    Literal.String.Escape

'\n\n'    Text
'PYVER_WITHPAT' Name.Variable
'='    Operator
'${'    Literal.String.Interpol
'PORTVERSION' Name.Variable
'}'    Punctuation
'\.'    Name.Variable
'.FileInputStream\'    Punctuation
'\'    Literal.String.Interpol
'\n'    Text
`DEMODIR` Name.Variable
`=` Operator
`\t` Text
`\${` Literal.String.Interpol
`PREFIX` Name.Variable
`\}` Literal.String.Interpol
`/share/examples/` Text
`\${` Literal.String.Interpol
`PYTHON_VERSION` Name.Variable
`\}` Literal.String.Interpol
`\n` Text

`TOOLSDIR` Name.Variable
`=` Operator
`\t` Text
`\${` Literal.String.Interpol
`PREFIX` Name.Variable
`\}` Literal.String.Interpol
`/share/` Text
`\${` Literal.String.Interpol
`PYTHON_VERSION` Name.Variable
`\}` Literal.String.Interpol
`\n` Text

`\n` 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

`\n` Text
`\'python-shared-config` Text
`\n` Text
'BINLINKS_SUB' Name.Variable
    '=' Operator
    '
' Text
    '-e' Text
    ' ' Text
    "'s.smtpd.smtpd${PYTHON_VER},'" Literal.String.Single
    ' ' Text
    '\n' Literal.String.Escape

    '
' Text
    '-e' Text
    ' ' Text
    "'s,(idle|pydoc|python-shared|python),\1${PYTHON_VER},'" Literal.String.Single
    '\n' Text

'OPTIONS' Name.Variable
    '=' Operator
    '
' Text
    'THREADS' Text
    ' ' Text
    "Enable thread support"'' Literal.String.Double
    ' ' Text
    'on' Text
    ' ' Text
    '\n' Literal.String.Escape

    '
' Text
    'HUGE_STACK_SIZE' Text
    ' ' Text
    "Use a larger thread stack"" Literal.String.Double
    ' ' Text
    'off' Text
    ' ' Text
    '\n' Literal.String.Escape

    '
' Text
    'UCS4' Text
    ' ' Text
    "Use UCS4 for unicode support"" Literal.String.Double
    ' ' Text
    'on' Text
    ' ' Text
    '\n' Literal.String.Escape

    '
' Text
    'PYMALLOC' Text
    ' ' Text
    "Use python's internal malloc"" Literal.String.Double
Open Source Used In HyperFlex HX Data Platform 5.0(2a)  3991
'PLIST_SUB' Name.Variable
'+' Operator
'\t' Text
'IF_DEFAULT' Name.Variable
'=' Operator
'"@comment "" Literal.String.Double
'\n' Text

'.endif\n' Comment.Preproc

'\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
'\n' Text

'.if !defined(WITHOUT_THREADS)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+' Operator
'\t' Text
'--with-threads' Text
'\n' Text

'CFLAGS' Name.Variable
'+' Operator
'\t\t' Text
'${PTHREAD_CFLAGS}' Name.Variable
'\}' Literal.String.Interpol

'.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CFLAGS' Name.Variable
'+' Operator
'\t\t' Text
'${DTHREAD_STACK_SIZE}' Name.Variable
'\}' Literal.String.Interpol

'.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc
'0x20000'  Text
'\n'  Text

'.else\n'  Comment.Preproc

'CFLAGS'  Name.Variable
'+='  Operator
'\n'  Text
'DTHREAD_STACK_SIZE'  Text
'='  Operator
'0x100000'  Text
'\n'  Text

'.endif # defined(WITHOUT_HUGE_STACK_SIZE)\n'  Comment.Preproc

'CONFIGURE_ENV'  Name.Variable
'+='  Operator
'\n'  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
'\n'  Text
'--without-threads'  Text
'\n'  Text

'.if defined(LDFLAGS)\n'  Comment.Preproc

'CONFIGURE_ENV'  Name.Variable
'+='  Operator
'\n'  Text
'LDFLAGS'  Name.Variable
'='  Operator
''  Literal.String.Double
'$\{'  Literal.String.Interpol
'LDFLAGS' Name.Variable
'} Literal.String.Interpol
""" Literal.String.Double
'un' Text

'.endif # defined(LDFLAGS)
'un' Comment.Preproc

'.endif # !defined(WITHOUT_THREADS)
'un' Comment.Preproc

'un' Text

'.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'un' Text
'--enable-unicode' Text
'=' Operator
'ucs4' Text
'un' Text

'.endif
'un' Comment.Preproc

'un' Text

'.if defined(WITHOUT_PYMALLOC)

'CONFIGURE_ARGS' Name.Variable
'+=
'un' Text
'--without-pymalloc' Text
'un' Text

'.endif
'un' Comment.Preproc

'un' Text

'.if ${ARCH} == i386

'PLIST_SUB' Name.Variable
'+=
'un' Text
'X86_ONLY' Name.Variable
'=' Operator
""" Literal.String.Double
'un' Text

'.else
'un' Comment.Preproc

'un' Text

'.if $\{ARCH\} == i386

'PLIST_SUB' Name.Variable
'+=
'un' Text
'X86_ONLY' Name.Variable
'=' Operator
""" Literal.String.Double
'un' Text

'.else
'un' Comment.Preproc

'un' Text

'PLIST_SUB' Name.Variable
'+' Operator
'	' Text
'X86ONLY' Name.Variable
'=' Operator
'"@comment "" Literal.String.Double
'n' Text

'.endif
' Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha
'PLIST_SUB' Name.Variable
'+' Operator
'32BITONLY' Name.Variable
'=' Operator
'"@comment "" Literal.String.Double
'n' Text

'.endif
' Comment.Preproc

'.if ${ARCH} == sparc64
'CFLAGS' Name.Variable
'+' Operator
'        '    Text
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'=' Operator
'900' Literal.Number
'n' Text

'.endif
' Comment.Preproc

'.endif
' Comment.Preproc

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS
'n' Text

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS
' Comment.Preproc
'PLIST_SUB' Name.Variable
'='  Operator
'
'NO_NIS' Name.Variable
'='  Operator
'"@comment "" Literal.String.Double
'
'.else\n'  Comment.Preproc

'PLIST_SUB' Name.Variable
'='  Operator
'
'NO_NIS' Name.Variable
'='  Operator
'""  Literal.String.Double
'
'.endif  Comment.Preproc

'\n'  Text

'.if !defined(WITHOUT_IPV6)\n'  Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'='  Operator
'
'--enable-ipv6' Text
'
'.else\n'  Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'='  Operator
'
'--disable-ipv6' Text
'
'.endif  Comment.Preproc

'\n'  Text

'.if defined(WITH_FPECTL)\n'  Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'='  Operator
'
'--enable-ipv6' Text
'
'.endif  Comment.Preproc

'\n'  Text

'.if defined(WITH_FPECTL)\n'  Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'='  Operator
'
'--disable-ipv6' Text

'\n'  Text

'.endif  Comment.Preproc

'\n'  Text
'--with-fpectl' Text
'\n'   Text
'.endif'  Comment.Preproc
'\n'   Text
'.if ${OSVERSION} >= 700000' Comment.Preproc

'PLATFORMS'  Name.Variable
'='   Operator
'plat-freebsd4' Text
'\n'   Text
'plat-freebsd5' Text
'\n'   Text
'plat-freebsd6' Text
'\n'   Text

'.elif ${OSVERSION} >= 600000' Comment.Preproc

'PLATFORMS'  Name.Variable
'='   Operator
'plat-freebsd4' Text
'\n'   Text
'plat-freebsd5' Text
'\n'   Text
'plat-freebsd7' Text
'\n'   Text

'.else'  Comment.Preproc

'PLATFORMS'  Name.Variable
'='   Operator
'plat-freebsd4' Text
'\n'   Text
'plat-freebsd6' Text
'\n'   Text
'plat-freebsd7' Text
'\n'   Text

'.endif'  Comment.Preproc
'\n'   Text

'pre-patch'  Name.Function
'\n'   Text
'\t'  Text
'S{'}  Literal.String.Interpol
'MKDIR'  Name.Variable
')'  Literal.String.Interpol
' '  Text
'S{'}  Literal.String.Interpol
'WRKSR'  Name.Variable
')'  Literal.String.Interpol
' '  Text
'S{'}  Literal.String.Interpol
'SHARED_WRKSR'  Name.Variable
')'  Literal.String.Interpol
'/Modules'  Text
'\n\n'  Literal.String.Escape

'\n\n'  Text
'S{'}  Literal.String.Interpol
'PATCH_WRKSR'  Name.Variable
')'  Literal.String.Interpol
'/Tools/scripts/pydoc'  Text
'>'  Text
'>'  Text
'>'  Text
'S{'}  Literal.String.Interpol
'WRKDIR'  Name.Variable
')'  Literal.String.Interpol
'/pydoc2.5'  Text
'\n\n'  Text
'S{'}  Literal.String.Interpol
'SED'  Name.Variable
')'  Literal.String.Interpol
' '  Text
'-e'  Text
' '  Text
'"1s,\.^\*$,#!${PREFIX}/bin/${PYTHON_VERSION},"'  Literal.String.Single
' '  Text
'\n'  Literal.String.Escape

'\n\n'  Text
'S{'}  Literal.String.Interpol
'SED'  Name.Variable
')'  Literal.String.Interpol
' '  Text
'-e'  Text
' '  Text
'"1s,\.^\*$,#!${PREFIX}/bin/${PYTHON_VERSION},"'  Literal.String.Single
' '  Text
'\n'  Literal.String.Escape

'\n\n'  Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Tools/scripts/idle' Text
' ' Text
'>' Text
' ' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/idle2.5' Text
' ' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'-e' Text
' ' Text
"1s,.^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION}," Literal.String.Single
' ' Text
'\\n' Literal.String.Escape

'\n\n' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib/smtpd.py' Text
' ' Text
'>' Text
' ' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/smtpd2.5.py' Text
'\n\n' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
'-e' Text
' ' Text
'\\n' Literal.String.Escape

'\n\n' Text
"s,/usr/doc/python-docs-,${PREFIX}/share/doc/python,g" Literal.String.Single
' ' Text
'\\n' Literal.String.Escape
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```
"'e' Text
'' Text
\n' Literal.String.Escape

'\t' Text
"[#^\(\)...INSTALL_SCRIPT.*\)python-config$$|#port \1|" Literal.String.Single
'' Text
\n' Literal.String.Escape

'\t' Text
'$' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'\)' Literal.String.Interpol
'/Makefile.pre.in' Text

'\n' Text
'$' Literal.String.Interpol
'SED' Name.Variable
'\)' Literal.String.Interpol
'' Text
'\t' Text
'' Text
"[^!.*|#!{PREFIX}/bin/$\{PYTHON_VERSION}]" Literal.String.Single
'' Text
\n' Literal.String.Escape

'\t' Text
'$' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'\)' Literal.String.Interpol
'/Misc/python-config.in' Text

'>' Text
'' Text
'$' Literal.String.Interpol
'WRKDIR' Name.Variable
'\)' Literal.String.Interpol
'>' Text
'$' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'\)' Literal.String.Interpol
'\-config' Text

'\n' Text
'$' Literal.String.Interpol
'SED' Name.Variable
'\)' Literal.String.Interpol
'' Text
'\t' Text
'' Text
```

---

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"\$|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}]"'' Literal.String.Single
'\n' Literal.String.Escape
'
' Text
'
' Text
'\\n'        Literal.String.Escape
'		'        Text
'		'        Text
'${'          Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/Misc/python-config.in' Text
' '           Text
'>'           Text
' '           Text
'${'          Literal.String.Interpol
'WRKDIR'      Name.Variable
'}'           Literal.String.Interpol
'/'           Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':S'           Name.Variable
'/thon/thon-shared/' Punctuation
'}'           Literal.String.Interpol
'config'     Text
'\n\n' Text
'.if defined(WITH_FPECTL) && ${ARCH} == i386' Comment.Preproc
'
' Text
'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
' '           Text
'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'           Literal.String.Interpol
'/Modules'    Text
'\n\n' Text
'${'          Literal.String.Interpol
'ECHO'        Name.Variable
'}'           Literal.String.Interpol
'"fpectl fpectlmodule.c"' Literal.String.Double
' '           Text
'>>>'          Text
' '           Text
'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'           Literal.String.Interpol

'Modules/Setup.dist' Text
'un'   Text

'.endif' Comment.Preproc

'un'   Text

'post-configure' Name.Function
'::'   Operator
'un'   Text

'un'   Text
'$({ TAR': Name.Variable
' }'   Literal.String.Interpol
' '   Text
' -C'   Text
' '   Text
'$(' WRKSRC' Name.Variable
' )'   Literal.String.Interpol
' '   Text
'-cf'   Text
' '   Text
'.'   Text
' '   Text
'.'   Text
' '   Text
'}   Punctuation
' '   Text
'$(' TAR': Name.Variable
' }'   Literal.String.Interpol
' '   Text
'-C'   Text
' '   Text
'$(' WRKSRC' Name.Variable
' )'   Literal.String.Interpol
' '   Text
'-xf'   Text
' '   Text
'.'   Text
' '   Text
'un\t'   Text
'$(' LN': Name.Variable
' )'   Literal.String.Interpol
' '   Text
```
-sf
'${PYTHON_WRKSRC}/Lib'
'
-sf
'${WRKSRC}/Lib'

'-e
's,^\(LDLIBRARY=\).*$$,\1libpython$$(VERSION).so,"

'-e
's,^\(BLDLIBRARY=\).*$$,\1-L. -lpython$$(VERSION),"

'-e
's,^\(CFLAGSFORSHARED=\).*$$,\1$(CCSHARED),"

'-e
's,^\(Makefile Modules/config.c:.*\)Makefile.pre,\1,"

'-e
's,^\(.(BUILDPYTHON)\: .*\).(LIBRARY),\1,"
```

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 4004
pre-build

'\n'

'\t'

'\t' -e

''

"s,\(.(BUILDuTHON):.*\),\1,\" Literal.String.Single

''

'\n' Literal.String.Escape

'\t'

'\$' Literal.String.Interpol

'\' Name.Variable

'\' Literal.String.Interpol

'\'/Makefile' Text

'' Text

'>' Text

'' Text

'\$' Literal.String.Interpol

'\SHAREED_WRKSRC' Name.Variable

'\' Literal.String.Interpol

'\'/Makefile' Text

'un\n'

'\n'

'\n'

'\n'

'\t'

'\cd' Name.Builtin

''

'\$' Literal.String.Interpol

'\SHAREED_WRKSRC' Name.Variable

'\' Literal.String.Interpol

'\' Punctuation

'' Text

'\n'

'\n'

'\t'

'\$' 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
'\n' Literal.String.Escape

'\t' Text
'${' Literal.String.Interpol
'LN' Name.Variable
'\'}' Literal.String.Interpol
' ' Text
'-' Text
'lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'\'}' Literal.String.Interpol
'.' Text
'\n' Literal.String.Escape
`/thon/thon-shared/` Punctuation
`'` Literal.String.Interpol
`\n\n` Text

`'pre-su-install'` Name.Function
`'.'` Operator
`'\n'` Text

`.for platform in `${PLATFORMS}`
 Comment.Preproc

`'\t'` Text
`'${'` Literal.String.Interpol
`'MKDIR'` Name.Variable
`'}'` Literal.String.Interpol
`' '` Text
`'${'` Literal.String.Interpol
`'PYTHONPREFIX_LIBDIR'` Name.Variable
`'}'` Literal.String.Interpol
`' '` Text
`'${'` Literal.String.Interpol
`'platform'` Name.Variable
`'}'` Literal.String.Interpol
`'\n'` Text

`.for file in IN.py regen` Comment.Preproc

`'\t'` Text
`'${'` Literal.String.Interpol
`'INSTALL_DATA'` Name.Variable
`'}'` Literal/String.Interpol
`' '` Text
`'${'` Literal.String.Interpol
`'WRKSRC'` Name.Variable
`'/'` Text
`'${'` Literal.String.Interpol
`'platform'` Name.Variable
`'}'` Literal.String.Interpol
`' '` Text
`'${'` Literal.String.Interpol
`'file'` Name.Variable
`'}'` Literal.String.Interpol
`' '` Text
`'\n'` Literal.String.Escape

`'\t\t'` Text
`'${'` Literal.String.Interpol
`'PYTHONPREFIX_LIBDIR'` Name.Variable

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Open Source Used In HyperFlex HX Data Platform 5.0(2a)  4008

'\'}   Literal.String.Interpol
'/'   Text
'${'   Literal.String.Interpol
'platform'   Name.Variable
'\'}'   Literal.String.Interpol
'/'   Text
'un'   Text

'.endfor\n'   Comment.Preproc

'.endfor\n'   Comment.Preproc

'un'   Text

'pre-install'   Name.Function
':'   Operator
'un'   Text

'\t'   Text
'${'   Literal.String.Interpol
'CATEGORY'   Name.Variable
'\'}'   Literal.String.Interpol
' '   Text
'${'   Literal.String.Interpol
'PLIST_TEMPLATE'   Name.Variable
'\'}'   Literal.String.Interpol
' '   Text
'|'   Punctuation
' '   Text
'${'   Literal.String.Interpol
'AWK'   Name.Variable
'\'}'   Literal.String.Interpol
' '   Text
'['   Operator
'\['   Operator
' '   Text
'} '{ print $$0; } \|\|LIBDIR.*\.py$$/ & & !/bad/ { print $$0 "o"; print $$0 "c"; }\| Literal.String.Single
'\t'   Text
'>'   Text
' '   Text
'${'   Literal.String.Interpol
'PLIST'   Name.Variable
'\'}'   Literal.String.Interpol
'un\n'   Text

"\t@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\n"Comment

'\t'   Text
'('   Operator
'|'   Operator
' '   Text
`-f` Text
`WRKSRC` Name.Variable
`/>.without_own_sha` Text
`
` Text
`'&&` Operator
`
` Text
`\\n` Literal.String.Escape

`\tt` Text
`GREP` Name.Variable
`
` Text
`\nv` Text
`
` Text
"lib-dynload/_sha" Literal.String.Single
`
` Text
`
` Text
`PLIST` Name.Variable
`
` Text
`>` Text
`
` Text
`
` Text
`PLIST` Name.Variable
`
` Text
`.tmp` Text
`
` Text
`'&&` Operator
`
` Text
`\\n` Literal.String.Escape

`\tt` Text
`CAT` Name.Variable
`
` Text
`
` Text
`PLIST` Name.Variable
`
` Text
`.tmp` Text
`
` Text
`>` Text
```
'' Text
'$' Literal.String.Interpol
'PLIST' Name.Variable
')' Literal.String.Interpol
'.Operator
'' Text
'|| Operator
'' Text
'$' Literal.String.Interpol
'TRUE' Name.Variable
')' Literal.String.Interpol
'un\n' Text

'post-install' Name.Function
'.' Operator
'un' Text

'@# install config providers\n' Comment

'@' Text
'$' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
')' Literal.String.Interpol
'' Text
'$' Literal.String.Interpol
'WRKDIR' Name.Variable
')' Literal.String.Interpol
'.' Text
'$' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
')' Literal.String.Interpol
'-config' Text
'' Text
'$' Literal.String.Interpol
'PREFIX' Name.Variable
')' Literal.String.Interpol
'/bin' Text
'un\n' Text
'$' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
')' Literal.String.Interpol
'' Text
'$' Literal.String.Interpol
'WRKDIR' Name.Variable
')' Literal.String.Interpol
'.' Text
'$' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
```
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 4011
Open Source Used In HyperFlex HX Data Platform 5.0(2a)

```
# Additional files installing by ports

#@ pyplot2.5
@# additional files installing by ports

#@ pydoc2.5
@# additional files installing by ports

#@ idle2.5
@# additional files installing by ports

#@ smtpd2.5.py
@# additional files installing by ports

```

```
OPEN SOURCE USED IN HYPERFLEX HX DATA PLATFORM 5.0(2a)

```
"\"TARGET" = "$\{ECHO_CMD\} \"TARGET\"
"$
\n"cd" = "$\{PREFIX\}/bin\n"
"&&" = "$\{LN\} -f "$\{TARGET\} "$\{TARGET\}
```

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```bash
	

```
1.389 libtiff 4.0.6-1ubuntu0.8

1.389.1 Available under license:

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1.390 curator-recipes 2.12.0
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1.391 libcommons-collections3-java 3.2.2 1

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  jar/com/google/common/collection/CustomConcurrentHashMap.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-
  jar/com/google/common/collection/AsynchronousComputationException.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-
  jar/com/google/common/collection/ImmutableSetMultimap.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-
  jar/com/google/common/collection/ExpirationTimer.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-
  jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-
  jar/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-
  jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-
  jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-
  jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
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  jar/com/google/common/annotations/GwtCompatible.java
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* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1.jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1.jar/com/google/common/collect/Lists.java
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* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1.jar/com/google/common/collect/ConcurrentHashMultiset.java
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* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-jar/com/google/common/collection/ComparatorOrdering.java
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* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-jar/com/google/common/collection/Iterators.java
* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-jar/com/google/common/collection/EmptyImmutableList.java
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* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-jar/com/google/common/collection/NullsLastOrdering.java
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* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-jar/com/google/common/base/Objects.java
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* /opt/cola/permits/1137595975_1614104312.37/0/google-collections-1-0-sources-1-jar/com/google/common/collection/NaturalOrdering.java
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* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in lib sensors and sensors.
* Mark M. Hoffman
  Many improvements to the lib sensors configuration file scanner.
* Jean Delvare
  New lib sensors API, and migration of sensors and sensord thereto.
  Many optimizations in lib sensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in lib sensors.

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#  
# Version  

# 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
sansserif.plain.korean=Baekmuk Gulim
sansserif.plain.chinese-big5=AR PL ShanHeiSun Uni
sansserif.plain.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.bold.latin-1=DejaVu LGC Sans Bold
sansserif.bold.japanese-x0208=Sazanami Gothic
sansserif.bold.korean=Baekmuk Gulim
sansserif.bold.chinese-big5=AR PL ShanHeiSun Uni
sansserif.bold.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.italic.latin-1=DejaVu LGC Sans Oblique
sansserif.italic.japanese-x0208=Sazanami Gothic
sansserif.italic.korean=Baekmuk Gulim
sansserif.italic.chinese-big5=AR PL ShanHeiSun Uni
sansserif.italic.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
sansserif.bolditalic.japanese-x0208=Sazanami Gothic
sansserif.bolditalic.korean=Baekmuk Gulim
# 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
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package java.lang;

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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.
 *
 * @author Mario Wolczko and Ross Knippel.
 * @author Konstantin Kladko (ported to Bsd)
 * @author Martin Buchholz
 */
final class UNIXProcess extends Process {
    private static final sun.misc.JavaIOFileDescriptorAccess fdAccess
        = sun.misc.SharedSecrets.getJavaIOFileDescriptorAccess();

    private 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 final int final int pid;
    private int exitcode;
    private boolean hasExited;
    private /* final */ InputStream 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.");
                }
            }
        });
}

/* this is for the reaping thread */
private native int 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 not -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 :
            System.in;
    System.out = (fds[1] == -1) ?
              ProcessBuilder.NullOutputStream.INSTANCE :
             System.out;
    System.err = (fds[2] == -1) ?
              ProcessBuilder.NullOutputStream.INSTANCE :
             System.err;
    etc...
}
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_java_nio_MappedByteBuffer_force0;
Java_java_nio_MappedByteBuffer_isLoaded0;
Java_java_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_pread0;
Java_sun_nio_ch_FileDispatcherImpl_pwrite0;
Java_sun_nio_ch_FileDispatcherImpl_read0;
Java_sun_nio_ch_FileDispatcherImpl_readv0;
Java_sun_nio_ch_OutputFileImpl_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_InheriatedChannel_close0;
Java_sun_nio_ch_InheriatedChannel_dup;
Java_sun_nio_ch_InheriatedChannel_dup2;
Java_sun_nio_ch_InheriatedChannel_open0;
Java_sun_nio_ch_InheriatedChannel_peerAddress0;
Java_sun_nio_ch_InheriatedChannel_peerPort0;
Java_sun_nio_ch_InheriatedChannel_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_canJoinIPv4WithIPv4Group0;
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.ServerSocketChannelImpl_checkConnect;
Java.sun.nio.ch.SocketChannelImpl_sendOutOfBandData;
Java.sun.nio.ch.UnixAsynchronousServerSocketChannelImpl_accept0;
Java.sun.nio.ch.UnixAsynchronousServerSocketChannelImpl_initIDs;
Java.sun.nio.ch.UnixAsynchronousSocketChannelImpl_checkConnect;
Java.sun.nio.fs.BsdNativeDispatcher_initIDs;
Java.sun.nio.fs.BsdNativeDispatcher_getfsstat;
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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.

* <P> 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 = -5636570222231596674L;

  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.
*<p>
* This must be implemented by subclasses of Permission, as they are the
* only ones that can impose semantics on a Permission object.
*
*<p>The <code>implies</code> method is used by the AccessController to determine
* whether or not a requested permission is implied by another permission that
* is known to be valid in the current execution context.
*
* @param permission the permission to check against.
*@
* @return true if the specified permission is implied by this object,
* false if not.
*/

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.
 * @return the name of this Permission.
 */

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");
 */
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 <code>permissionCollection.implies</code> 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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}  
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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_Image_initIDs;
Java_sun_awt_image_ImageRepresentation_initIDs;
Java_sun_awt_image_ImageRepresentation_setDiffICM;
Java_sun_awt_image_ImageRepresentation_setICMPixels;
Java_sun_awt_image_ImagingLib_convolveBI;
Java_sun_awt_image_ImagingLib_convolveRaster;
Java_sun_awt_image_ImagingLib_init;
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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_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
Java_sun_awt_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setSurfaceData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMData;
Java_sun_awt_image_BufImgSurfaceData_setNativeICMTileData;
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_GraphicsPrimitiveMgr_initIDs;
Java.sun.java2d_loops_GraphicsPrimitiveMgr_registerNativeLoops;
Java.sun.java2d_loops_MaskBit_MaskBit;
Java.sun.java2d_loops_MaskFill_MaskFill;
Java.sun.java2d_loops_MaskFill_FillAAPgram;
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 compatibility.
    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_restoreFocus;
    Java_sun_awt_DefaultMouseInfoPeer_fillPointWithCoords;
    Java_sun_awt_DefaultMouseInfoPeer_isWindowUnderMouse;
    Java_java_awt_AWTEvent_nativeSetSource;
    Java_java_awt_Checkbox_initIDs;
    Java_java_awt_Component_initIDs;
    Java_java_awt_Dialog_initIDs;
    Java_java_awt_Font_initIDs;
    Java_sun_awt_KeyboardFocusManagerPeerImpl_clearNativeGlobalFocusOwner;
        Java_sun_awt_KeyboardFocusManagerPeerImpl_getNativeFocusOwner;
        Java_sun_awt_KeyboardFocusManagerPeerImpl_getNativeFocusedWindow;
    Java_java_awt_KeyboardFocusManager_initIDs;
    Java_java_awt_Menu_initIDs;
    Java_java_awt_MenuComponent_initIDs;
    Java_java_awt_MenuItem_initIDs;
    Java_java_awt_Scrollbar_initIDs;
    Java_java_awt_ScrollPane_initIDs;
    Java_java_awt_TextArea_initIDs;
    Java_sun_awt_FontDescriptor_initIDs;
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#Java_sun_awt_motif_MDropTargetContextPeer_startTransfer;
#Java_sun_awt_motif_X11DragSourceContextPeer_startDrag;
#Java_sun_awt_motif_X11DragSourceContextPeer_setNativeCursor;
#Java_sun_awt_motif_X11DropTargetContextPeer_sendResponse;
#Java_sun_awt_motif_X11DropTargetContextPeer_dropDone;
#Java_sun_awt_motif_X11DropTargetContextPeer_getData;
#Java_sun_awt_motif_MEmbeddedFramePeer_NEFcreate;
#Java_sun_awt_motif_MEmbeddedFramePeer_pShowImpl;
#Java_sun_awt_motif_MEmbeddedFramePeer_pReshapePrivate;
#Java_sun_awt_motif_MEmbeddedFramePeer_getBoundsPrivate;
#Java_sun_awt_motif_MFramePeer_pSetIconImage__3B_3I_3SII;
#Java_sun_awt_motif_MEmbeddedFramePeer_requestXEmbedFocus;
#Java_sun_awt_motif_MEmbeddedFramePeer_isXEmbedApplicationActive;
#Java_sun_awt_motif_MEmbeddedFramePeer_isXEmbedActive;
#Java_sun_awt_motif_MEmbeddedFrame_getWidget;
#Java_sun_awt_motif_MFileDialogPeer_create;
#Java_sun_awt_motif_MFileDialogPeer_pDispose;
#Java_sun_awt_motif_MFileDialogPeer_pHide;
#Java_sun_awt_motif_MFileDialogPeer_pReshape;
#Java_sun_awt_motif_MFileDialogPeer_pShow;
#Java_sun_awt_motif_MFileDialogPeer_setFileEntry;
#Java_sun_awt_motif_MFileDialogPeer_setFont;
#Java_sun_awt_motif_MFramePeer_pGetIconSize;
#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_MLabelPeer_create;
#Java_sun_awt_motif_MLabelPeer_setAlignment;
#Java_sun_awt_motif_MLabelPeer_setText;
#Java_sun_awt_motif_MListPeer_addItem;
#Java_sun_awt_motif_MListPeer_create;
#Java_sun_awt_motif_MListPeer_delItems;
#Java_sun_awt_motif_MListPeer_deselect;
#Java_sun_awt_motif_MListPeer_makeVisible;
#Java_sun_awt_motif_MListPeer_select;
#Java_sun_awt_motif_MListPeer_setMultipleSelections;
#Java_sun_awt_motif_MMenuBarPeer_create;
#Java_sun_awt_motif_MMenuItemPeer_createMenu;
#Java_sun_awt_motif_MMenuItemPeer_pDisable;
#Java_sun_awt_motif_MMenuItemPeer_pDispose;
#Java_sun_awt_motif_MMenuItemPeer_pEnable;
#Java_sun_awt_motif_MMenuItemPeer_pSetLabel;
#Java_sun_awt_motif_MMenuPeer_createMenu;
#Java_sun_awt_motif_MMenuPeer_createSubMenu;
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_getBounds;
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;

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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_event_InputEvent_initIDs;
Java_java_event_KeyEvent_initIDs;
Java_java_FileDialog_initIDs;
Java_java_Frame_initIDs;
Java_javaInsets_initIDs;
Java_java_TextField_initIDs;
Java_java_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_MMenuItemPeer_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;
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#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_nativeBlitBg;
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_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_MEmbedCanvasPeer_initXEmbedServer;
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_embedChild;
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_getAWTK keyCodeForKeySym;
Java_sun_awt_motif_MEmbedCanvasPeer_sendMessage__I;
Java_sun_awt_motif_MEmbedCanvasPeer_sendMessage__IIII;
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;
    AWTFontMaxByte1;
    AWTFontMinCharOrByte2;
    AWTFontMaxCharOrByte2;
    AWTFontDefaultChar;
    AWTFontPerChar;
    AWTFontMaxBounds;
    AWTFontTextExtents16;
    AWTFreeChar;
    AWTFontGenerateImage;
    AWTCharAdvance;
    AWTCharLBearing;
    AWTCharRBearing;
    AWTCharAscent;
    AWTCharDescent;
    AWTDrawGlyphList;
    AccelGlyphCache_RemoveAllCellInfos;

local:
*;
# targeted to BSD. Should not contain any rules.
#

# Warning: the following variables are overriden by Defs.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_LDFAGS) 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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# or visit www.oracle.com if you need additional information or have any
# questions.
#

# 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.
ifndef UNIXCOMMAND_PATH
    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.
ifndef USRBIN_PATH
    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.
ifndef UNIXCCS_PATH
    UNIXCCS_PATH := $(call PrefixPath, $(ALT_UNIXCCS_PATH))
else
    UNIXCCS_PATH :=/usr/solaris/bin/
endif
else
    UNIXCCS_PATH = /usr/ccs/bin/
endif

# SLASH_JAVA: location of all network accessible 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
    _BOOTDIR1 = $(SLASH_JAVA)/re/jdk/$(PREVIOUS_JDK_VERSION)/archive/fcs/binaries/$(PLATFORM)-$(ARCH)
    _BOOTDIR2 = $(USRJDKINSTANCES_PATH)/jdk$(PREVIOUS_JDK_VERSION)
endif

# BUILD_JDK_IMPORT_PATH: location of JDK install trees to import for
# multiple platforms, e.g. windows-i586, solaris-sparc, bsd-586, etc.
ifdef ALT_BUILD_JDK_IMPORT_PATH
    BUILD_JDK_IMPORT_PATH := $(call FullPath,ALT_BUILD_JDK_IMPORT_PATH)
else
    BUILD_JDK_IMPORT_PATH := $(PROMOTED_BUILD_BINARIES)
endif

    BUILD_JDK_IMPORT_PATH := $(call AltCheckValue,BUILD_JDK_IMPORT_PATH)

# JDK_IMPORT_PATH: location of JDK install tree (this version) to import
ifdef ALT_JDK_IMPORT_PATH
else
    JDK_IMPORT_PATH = $(PACKAGE_PATH)/bin/
endif

    JDK_IMPORT_PATH := $(call AltCheckValue,JDK_IMPORT_PATH)
JDK_IMPORT_PATH := $(call FullPath,$(ALT_JDK_IMPORT_PATH))
else
    JDK_IMPORT_PATH = $(BUILD_JDK_IMPORT_PATH)/$(PLATFORM)-$(ARCH)$(JDK_IMPORT_VARIANT)
endif

JDK_IMPORT_PATH:=$(call AltCheckValue,JDK_IMPORT_PATH)

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
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    html, body { background: #fff; color: #000; } /* body for Windows IE3 */
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 * by Oracle in the LICENSE file that accompanied this code.
 */
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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/**
 *
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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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1.415 ipmi-tool 1.8.15
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1.417 shadow 4.2-3.1ubuntu5.3

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1.419 libxi 1.7.6-1

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jar/io/netty/internal/tnative/CertificateCallbackTask.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
jar/io/netty/internal/tnative/SSLPrivateKeyMethodTask.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
jar/io/netty/internal/tnative/SSLPrivateKeyMethodDecryptTask.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
jar/io/netty/internal/tnative/SSLPrivateKeyMethod.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
jar/io/netty/internal/tnative/SSLPrivateKeyMethodSignTask.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
jar/io/netty/internal/tnative/SSLTask.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
jar/io/netty/internal/tnative/CertificateVerifierTask.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
jar/io/netty/internal/tnative/SSLPrivateKeyMethodSignTask.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-URL: 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

Found in path(s):
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tcnative-boringssl-static-2-0-30-final-sources-4-jar/META-INF/MANIFEST.MF

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jar/io/netty/internal/tcnative/CertificateRequestedCallback.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tcnative-boringssl-static-2-0-30-final-sources-4-
jar/io/netty/internal/tcnative/SessionTicketKey.java
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  jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tcnative-boringssl-static-2-0-30-final-sources-4-
  jar/io/netty/internal/tcnative/SniHostNameMatcher.java
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  jar/io/netty/internal/tcnative/CertificateCallback.java

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Microsoft Corporation
Brian Wengert (bwengert79)
Leslie Brody (Les1966)
Michael M (M1xa)
Matt Peterson (MattPeterson1)
Dmitry Kolomiets (kolomiets)
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Jesse Towner (jwtowner)

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Gianfranco Costamagna (LocutusOfBorg)

AutoDesk Inc.
Cyrille Fauvel (cyrillef)

Illumina Inc.
Gery Vessere (gery@vessere.com)

Cisco Systems
Gergely Lukacsy (glukacsy)
Chris Deering (deeringc)

Ocedo GmbH
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thomasschaub

Trimble
Tim Boundy (gigaplex)
Rami Abughazaleh (icnocop)
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1.427 entity-framework 4.5.50709

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Upstream Authors:

Chet Ramey <chet.ramey@case.edu>
Jeff Solomon <jsolomon@stanford.edu> (examples/excallback.c)
Harold Levy <Harold.Levy@synopsys.com> (examples/rl-fgets.c)
Juergen Weigert <jnweiger@immd4.informatik.uni-erlangen.de> (examples/rlfe)
Michael Schroeder <mlschroe@immd4.informatik.uni-erlangen.de> (examples/rlfe)
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the 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:
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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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

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

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

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

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

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

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1.434 diffutils 3.3-3
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1.441 libsodium 1.0.16

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1.442 boost 1.69.0

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

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

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;
using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() {}
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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_INTRUSIVE_DETAIL_MPL_HPP)
#  define BOOST_INTRUSIVE_DETAIL_MPL_HPP
#endif

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

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif
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 lzs_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_TMLTPL(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                                            \
        ::boost::intrusive::detail::if_c                         \
        < boost_intrusive_has_type_ ## TNAME<T>::value        \
        , T, DefaultWrap>::type::TNAME type;                  \
    };                                                             \
    \
    //
    
    #define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)   \
    typename INSTANTIATION_NS_PREFIX                                                       \
    boost_intrusive_default_type_ ## TNAME<T, TIMPL >::type                            \
    //
#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME) \
INSTANTIATION_NS_PREFIX \
  boost_intrusive_has_type_##TNAME< T >::value \
//

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

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

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

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

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

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND)\
template<class T>\
struct TRAITS_PREFIX##_bool\
{\
  template<bool Add>\
  struct two_or_three {yes_type _[2 + Add];};
  
  template<class U> static yes_type test(...);

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

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

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
    template <typename Type> \
    struct TRAITS_NAME \
    {
        struct BaseMixin \
        {
            void FUNC_NAME();
        };
        struct Base : public Type, public BaseMixin { Base(); };
        template <typename T, T t> class Helper{};
        template <typename U> \
        static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0);
        static ::boost::intrusive::detail::yes_type test(...);
        static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0)));
    };

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
    BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(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>

#error //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 [Integral Constant type](../../../../libs/mpl/doc/refmanual/integral-constant.html).

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
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[article Copyright Test
[quickbook 1.5]
[copyright 1977,1985 Someone else]
]
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
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<link rel="up" href="../index.html" title="Chapter &gt; 160;1. &amp;gt; 160;Boost.TypeTraits">
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
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<td align="center"><a href="../../../.././././index.html">Home</a></td>
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<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center">FAQ</a></td>
</tr>
</table>

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 4505
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::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `mpl::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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var group__group_ext_mpl =
[  
    [ "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
    [ "list", "structboost_1_1mpl_1_1list.html", null ],
    [ "vector", "structboost_1_1mpl_1_1vector.html", null ]
];

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template <int i>
struct t { };

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

int main() { }

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

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

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

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;

        } // namespace dtl
    } // namespace container
} // namespace boost

#endif
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_
using boost::move_detail::or_
using boost::move_detail::not_
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

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

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

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

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

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
  static const bool value = true;
template <typename C, typename K, typename R>
struct enable_if_transparent
  : boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{};

}  //namespace dtl {
}  //namespace container {
}  //namespace boost {

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

//ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
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<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Boost.HigherOrderFunctions 0.6 documentation</title>
<link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
  URL_ROOT:    './',
  VERSION:     '0.6',
  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
  HAS_SOURCE:  true,
  SOURCELINK_SUFFIX: '.txt'
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
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<link rel="search" title="Search" href="search.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr><td align="top"><img alt="Boost C++ Libraries" width="277" height="86" src="_static/boost.png"></td></tr></table>
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#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#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_>

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_>

```cpp
```
{  
  static const bool value = C_;  
};

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

typedef true_ true_type;
typedef false_ false_type;

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

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

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

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

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

template<
  typename T1
  , typename T2
  >
struct if_c<false,T1,T2>
{
  typedef T2 type;
};
template<
    typename T1,
    typename T2,
    typename T3
>
struct if_
{
    typedef typename if_<
        T1::value != 0, 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%e09%ad', filename], universal_newlines=True)
    for line in log.splitlines():
author, date = line.split('Y')
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(getitemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
        return map(itemgetter(1), sorted(f()))

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

        print filename
        new = iter(new_copyright(filename, names))
        with open(filename, 'w') as f:
            for i, line in enumerate(content):
                if i in lines:
                    for repl in new:
                        print >>f, prefix + repl
                else:
print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[-1] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)

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

Maybe this should pass?
<!--
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-->
<!-- boost-no-inspect -->
<!-- HTML header for doxygen 1.8.9.1-->
<!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"
Adapters for Boost.MPL containers.

- **boost::mpl::integral_c**<br>
  Adapter for IntegralConstants from the Boost.MPL. More...<br>

- **boost::mpl::list**<br>
  Adapter for Boost.MPL lists. More...<br>

- **boost::mpl::vector**<br>
  Adapter for Boost.MPL vectors. More...
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</para>
<!--hr / -->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
&amp;#169; 2000-2002
</section>

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

HISTORY -

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

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

Some other contributors:

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

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

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

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

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dggregor -at- cs.indiana.edu, doug.gregor -at- gmai.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellig -at- amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUF.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUF.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- uniwb-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Brunnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuitinen ilari.kuitinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrvi (jjarvi -at- osl.ia.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (See Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.ia.edu)
Jeremy Siek (jsiek@osl.ia.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullick Bjnnes (larshj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrrett (mmurrett -at- mac.com)
Marc Winternmantel (winternmantel -at- imes.mavt.ethz.ch, winternmantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera@acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- filll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempf (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve Cleary (Variant of Stephen Cleary)
Open Source Used In HyperFlex HX Data Platform 5.0(2a)  4526

Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)
The Trustees of Indiana University()
Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)
Thorsten Jrgen Ottosen (nesotto - at - cs.auc.dk)
Thorsten Ottosen (nesotto - at - cs.auc.dk)
Toon Knapen (toon dot knapen - at - fft.be)
The Trustees of Indiana University()
University of Notre Dame()
Vladimir Prus (ghost@cs.msu.su)
William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---
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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 $"
http_parser.c is based on src/http/ngx_http_parse.c from NGINX copyright Igor Sysoev.

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

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

Boost.Geometry (aka GGL, Generic Geometry Library)

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_USERSCOPYRIGHT

*/
*/

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

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

private:
  split_path& operator=(const split_path&);
};

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

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

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

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

  std::ofstream os(m_dest_path.string().c_str());
  if(!os)
  {
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output."
    std::runtime_error e(msg);
    boost::throw_exception(e);
  }
  os <<
    "<!DOCTYPE HTML PUBLIC \
  "/W3C//DTD HTML 4.0 Transitional//EN"\n  ">\n  "<html>\n  "<head>\n  "<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</H1>

while(i != j) {
    // title:
    os << " <A href="#input">Input Information</a>
" << 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...
" << make_link_target(licenses.first[i->first].license_name) << "</a>"
" "files" "files with no recognised license</a>"
" a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>"
" a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>"
" a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>"
" a href="#copyright">Copyright Holder Information</a>
";
}

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

// input Information:
//
//
os << "<a name="input"></a><h2>Input Information</h2>
";
if(m_scan_mode)
os << "<P>The following files were scanned for boost dependencies:<BR>");
else
os << "<P>The following Boost modules were checked:<BR>");

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
os << *si << "<BR>
";
++si;
}
os << "</P><p>The Boost path was: <code>" << m_boost_path.string() << "</code>";

//
// 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\[[:blank:]*([0-9]+)\]*/\d+*/\d+*/\d+*/\d+*/\d+*/\d+");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
os << "<P>The Boost version is: " << version / 10000 * 1000 / 100 % 100
<< "<P>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
os << "<a name="summary"></a><h2>Licence Summary</h2>
";
while(i != j)
{
    // title:
os << "<H3>" << licenses.first[i].first.license_name << "</H3>\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i].first.license_text << "</BLOCKQUOTE>";
// Copyright holders:
os << "<P>This license is used by " << i->second.authors.size()
   " authors and " << i->second.files.size()
   " 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:
";
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "<BR><\n";
++x;
}
os << "</P></BLOCKQUOTE>\n";

    // Files using this license:
os << "<P>This license applies to the following 
" << i->second.files.size() << " files:
";
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) << "<hr><\n";
++m;
}
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>\n";
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>\n";
    ++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>\n";
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</P>\n";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\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><p>\n";
}
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:

```cpp
if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
        os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
            << "</tt><br>
            <table border="1">
                <tr>
                    <td><pre>
                        "i->second.first << "</pre></td>
                    <td><pre>
                        "i->second.second << "</pre></td>
                </tr>
            </table>
```
```
// 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>

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><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>
<table border="1">
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
}
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << "<I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";
os << "</body></html>";
if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

1.443 attrs 15.2.0

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1.444 cffi 0.8.6

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1.445 wget 1.17.1 1ubuntu1.2

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Christian Schwarz <schwarz@monet.m.isar.de> on Mon, 18 Nov 1996 00:59:57 +0100
J. Ramos Goncalves <ramos@debian.org> on Thu, 13 Feb 1997 23:15:18 +0000
Nicols Lichtmaier <nick@debian.org> on Sat, 18 Oct 1997 21:23:12 -0300
Nol Kthe <noel@debian.org> on Mon, 18 Feb 2002 09:53:00 +0100

It was downloaded from ftp://ftp.gnu.org-gnu/wget/
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Upstream Author: Giuseppe Scrivano <gscrivano@gnu.org>

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1.448 pycryptodome 3.10.1

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1.452 pythonurllib 1.13.1 2ubuntu0.16.04.1

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributions

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/@WBRSLBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage
* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

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

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

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

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

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <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]>
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Ajay Tirumala
Jim Ferguson
Jon Dugan
Feng Qin
Kevin Gibbs
John Estabrook
National Laboratory for Applied Network Research
National Center for Supercomputing Applications
University of Illinois at Urbana-Champaign
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* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/xml.xsd
* /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
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/datatypes.dtd
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/j2ee_1_4.xsd

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* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/web-
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* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/javaee_web_services_client_1_2.xsd
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/javaee_5.xsd
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/jsp/resources/jsp_2_0.xsd

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* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/jsp_2_0.xsd
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/jsp/resources/jspxml.xsd
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/jsp/resources/jspxml.dtd

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INF subdirectory, along with the appropriate implementing classes, and other resources required to implement the tags defined therein.

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: 1.5.0_13 (Sun Microsystems Inc.)
Built-By: janb
Build-Jdk: 1.5.0_13
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-RequiredExecutionEnvironment: J2SE-1.4
Specification-Version: 2.5
Bnd-LastModified: 1229016831353
Export-Package: javax.servlet.http

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 4611
javax.servlet;version="2.5",javax.servlet.resources;version="2.5",javax.servlet.jsp.resources;version="2.5"
Bundle-Version: 2.5
Ignore-Package: javax.servlet.http,javax.servlet,javax.servlet.resources,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

Found in path(s):
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/META-INF/MANIFEST.MF
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<xsd:enumeration value="CONFIDENTIAL"/>

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Used in: user

Found in path(s):
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/web-
app_2_3.dtd

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* @version 3.0 (December 2000)
* *
* Optimised ANSI C code for the Rijndael cipher (now AES)
* *
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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1.474 xml-apis 2.0.2

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/**
 * Base class for deriving an XML filter.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This class is designed to sit between an 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

Basic interface for SAX error handlers.

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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

```java
ErrorHandler errorHandler = new XMLFilterImpl();
XMLReader reader = new XMLReader();
reader.setErrorHandler(errorHandler);
```

The parser will then report all errors and warnings through this interface.

WARNING: If an application does not register an ErrorHandler, XML parsing errors will go unreported and bizarre behaviour may result.

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

```java
fatalError(throwable);
```

could catch an exception and report a fatalError.

Since SAX 1.0
// NO WARRANTY! This class is in the public domain.
/**
 * Interface for a list of XML attributes.
 *
 * <blockquote>
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 * </blockquote>
 *
 * This interface allows access to a list of attributes in 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). 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.
 *
 * This interface replaces the now-deprecated SAX1 <var>AttributeList</var> interface, which does not contain Namespace support. In addition to Namespace support, it adds the <var>getIndex</var> methods (below).
 *
 * The order of attributes in the list is unspecified, and will vary from implementation to implementation.
 *
 * @since SAX 2.0
 * @author David Megginson,
Default implementation for AttributeList.

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AttributeList implements the deprecated SAX1 interface, and has been replaced by the new SAX2 interface.

This class provides a convenience implementation of the SAX 1 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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// NO WARRANTY!  This class is in the Public Domain.
/**
 * 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 {@link org.xml.sax.EntityResolver EntityResolver}, {@link org.xml.sax.DTDHandler DTDHandler}, {@link org.xml.sax.ContentHandler ContentHandler} and {@link org.xml.sax.ErrorHandler 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
*/

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/**
 * Interface for associating a SAX event with a document location.
 *
 * <blockquote>
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 *
 * <p> 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 [link org.xml.sax.ContentHandler#setDocumentLocator setDocumentLocator] method. The application can use the
 * object to obtain the location of any other content handler event
 * in the XML source document.</p>
 *
 * <p>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.</p>
 *
 * 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.</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.ContentHandler#setDocumentLocator
 */

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/**
 * Receive notification of basic DTD-related events.
 *
 * <blockquote>
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 * </blockquote>

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: notation and unparsed entity declarations.

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.

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.

Since SAX 1.0

Author David Megginson,

<a href="mailto:sax@megginson.com">sax@megginson.com</a>
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/*
 * Default base class for handlers.
 *
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 * </blockquote>
 *
 * 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.
 *
 * Note that the use of this class is optional.
 *
 * @deprecated This class works with the deprecated
 * {@link org.xml.sax.DocumentHandler DocumentHandler} interface. It has been replaced by the SAX2
 * 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.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.DocumentHandler
 * @see org.xml.sax.ErrorHandler
 */

Found in path(s):
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*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DocumentLS.java
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*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathResult.java
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathExpression.java
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*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/ParseErrorEvent.java
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMWriterFilter.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.</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
 * XPathExpression 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 API, 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.
 * <p>See also the <a href='http://www.w3.org/TR/2002/WD-DOM-Level-3-XPath-20020328'>Document Object
Model (DOM) Level 3 XPath Specification</a>.
*/

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>
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 * 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>
 * *
 * When an attribute list is supplied as part of a
 * 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
 * helper class.</p>
 * *
 * An attribute list includes only attributes that have been
 * specified or defaulted: #IMPLIED attributes will not be included.</p>
 * *
 * There are two ways for the SAX application to obtain information
 * from the AttributeList. First, it can iterate through the entire
 * list:</p>
 * *
 * 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>
 * (Note that the result of getLength() will be zero if there
As an alternative, the application can request the value or type of specific attributes:

```java
public void startElement (String name, AttributeList atts) {
    String identifier = atts.getValue("id");
    String label = atts.getValue("label");
    [...]
}
```

@deprecated This interface has been replaced by the SAX2 interface, which includes Namespace support.

@since SAX 1.0
@version 2.0
@see org.xml.sax.DocumentHandler#startElement startElement
@see org.xml.sax.helpers.AttributeListImpl AttributeListImpl

/**
 * Receive notification of general document events.
 *
 * <blockquote>
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 * </blockquote>
 *
 * This was the main event-handling interface for SAX1; in SAX2, it has been replaced by `{@link org.xml.sax.ContentHandler 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.

@deprecated This interface has been replaced by the SAX2 ContentHandler 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

Factory for creating an XML reader.

This class contains static methods for creating an XML reader from an explicit class name, or based on runtime defaults:

```java
try {
   XMLReader myReader = XMLReaderFactory.createXMLReader();
} catch (SAXException e) {
   System.err.println(e.getMessage());
}
```

Note to Distributions bundled with parsers: You should modify the implementation of the no-arguments constructor.
* `<em>createXMLReader</em>` 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  
* /

Found in path(s):  
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/XMLReaderFactory.java  
No license file was found, but licenses were detected in source scan.

```
// This class is in the Public Domain. NO WARRANTY!
/**
 * 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>

 * 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>
* @version 2.0
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/NamespaceSupport.java
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// NO WARRANTY! This class is in the public domain.
/**
 * Default base class for SAX2 event handlers.
 *
 * <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 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:</p>
 *
 * <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>
 *
 * <p>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>
*
* <p>This class replaces the deprecated SAX1
* [@link org.xml.sax.HandlerBase HandlerBase] class.</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.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/DefaultHandler.java
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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>
*
* <p>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 [@link 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>
*
* <p>Since this exception is a subclass of [@link 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
*/
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Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXParseException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/RangeException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CharacterData.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NamedNodeMap.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Text.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/Event.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventTarget.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/DocumentEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/MutationEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/TreeWalker.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Attr.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ProcessingInstruction.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/TreeWalker.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Comment.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/EntityReference.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DocumentFragment.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CDATASection.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Node.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NodeList.java
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/**
 * Basic interface for resolving entities.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * 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
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.Parser#setEntityResolver
@see org.xml.sax.InputSource

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*/

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLBRElement.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/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/HTMLULListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLFrameSetElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLStyleElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLHRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/w3c/dom/html/HTMLOptionElement.java
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/**
 * Provide an optional convenience implementation of Locator.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * 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:
 *
 * <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);
* } }
* </pre>
*
* <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,
*        <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Locator Locator
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/LocatorImpl.java
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  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/DocumentBuilderFactory.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/DocumentBuilder.java

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// NO WARRANTY! This class is in the Public Domain.
/**
* Interface for reading an XML document using callbacks.
* *
* <blockquote>
This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.

Note: despite its name, this interface does not extend the standard Java Reader interface, because reading XML is a fundamentally different activity than reading character data.

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.

All SAX interfaces are assumed to be synchronous: the (now deprecated) SAX 1.0 Parser interface. The XMLReader interface contains two important enhancements over the old Parser interface:

- it adds a standard way to query and set features and properties; and
- it adds Namespace support, which is required for many higher-level XML standards.

There are adapters available to convert a SAX1 Parser to a SAX2 XMLReader and vice-versa.

@author David Megginson

@since SAX 2.0

@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.
    *
    * <blockquote>
    * <em>This module, both source code and documentation, is in the
    * Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
    * </blockquote>
    *
    * 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.</p>
    *
    * 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
    * method.</p>
    *
    * 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.</p>
    *
    * An InputSource object belongs to the application: the SAX parser
    * shall never modify it in any way (it may modify a copy if
    * necessary).</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#parse
    * @see org.xml.sax.EntityResolver#resolveEntity
    * @see java.io.InputStream
    * @see java.io.Reader
    */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/InputSource.java
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Exception class for an unsupported operation.
 *
This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.

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,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.SAXNotRecognizedException

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/**
 * Adapt a SAX1 Parser as a SAX2 XMLReader.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * 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.
 *
 * This adapter does not test for duplicate Namespace-qualified
 * attribute names.
 *
 * @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.
 *
 * 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.
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-api-2-0-2-sources-2-jar/org/xml/sax/helpers/ParserAdapter.java
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// NO WARRANTY! This class is in the public domain.
/**
 * Default implementation of the Attributes interface.
 *
 * <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 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:
 *
 * <ol>
 * <li> to take a persistent snapshot of an Attributes object
 * in a [ @link org.xml.sax.ContentHandler#startElement startElement ] event; or</li>
 * <li> to construct or modify an Attributes object in a SAX2 driver or filter. </li>
 * </ol>

 * This class replaces the now-deprecated SAX1 [ @link
 * org.xml.sax.helpers.AttributeListImpl AttributeListImpl ]
 * class; in addition to supporting the updated Attributes
 * interface rather than the deprecated [ @link org.xml.sax.AttributeList
 * AttributeList ] interface, it also includes a much more efficient
 * implementation using a single array rather than a set of Vectors. </p>
 *
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/AttributesImpl.java

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// NO WARRANTY! This class is in the Public Domain.
/**
 * Create a new instance of a class by name.
 *
 * <blockquote>
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.

@author Edwin Goei, David Brownell, Neil Graham
@version $Id: NewInstance.java,v 1.2 2002/08/26 23:55:45 neilg Exp$

Encapsulate a general SAX error or warning.

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.

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.

If the parser or application needs to include information about a specific location in an XML document, it should use the SAXParseException subclass.

@since SAX 1.0
@author David Megginson,
/*
 * Copyright (c) 2002 World Wide Web Consortium,
 * (Massachusetts Institute of Technology, Institut National de
 * Recherche en Informatique et en Automatique, Keio University). All

// NO WARRANTY! This class is in the Public Domain.
/**
 * Exception class for an unrecognized identifier.
 *<blockquote>
 *<em>This module, both source code and documentation, is in the
 *Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 *<em>See also <a href="mailto:sax@megginson.com">sax@megginson.com</a></em>
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXException.java
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Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXNotRecognizedException.java
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/*
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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>MODE_ASYNCHRONOUS</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>MODE_ASYNCHRONOUS</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):
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/**
 * Basic interface for SAX (Simple API for XML) parsers.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.<br/>
 * </blockquote>
 *
 * 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.
 *
 * 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 interface, which includes Namespace support.
 *
 * @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
 */

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
No license file was found, but licenses were detected in source scan.
/**
 * SAX2 extension handler for DTD declaration events.
 *
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.<em>
 * </em>
 *
 * 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.</p>
 *
 * Note that data-related DTD declarations (unparsed entities and
 * notations) are already reported through the { @link
 * org.xml.sax.DTDHandler DTDHandler} interface.</p>
 *
 * 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
 * { @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException} or a
 * { @link org.xml.sax.SAXNotSupportedException 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
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/DeclHandler.java

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/**
 * Java-specific class for dynamically loading SAX parsers.
 *
 * This module, both source code and documentation, is in the

Note: This class is designed to work with the now-deprecated SAX1 class. SAX2 applications should use 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.

@deprecated This class works with the deprecated interface.

@since SAX 1.0

@version 2.0r2pre3

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Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/FilePathToURI.java
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// NO WARRANTY! This class is in the public domain.
/**
 * Adapt a SAX2 XMLReader as a SAX1 Parser.
 * 
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.
 * </em>
 * </blockquote>
 * 
 * This class wraps a SAX2 [URL @link org.xml.sax.XMLReader XMLReader] and makes it act as a SAX1 [URL @link org.xml.sax.Parser Parser]. The XMLReader must support a true value for the [URL http://xml.org/sax/features/namespace-prefixes] property or parsing will fail with a [URL @link org.xml.sax.SAXException] Exception; if the XMLReader supports a false value for the [URL http://xml.org/sax/features/namespaces] property, that will also be used to improve efficiency.
 * 
 * @since SAX 2.0
 * @author David Megginson,
 * @version 2.0
 * @see org.xml.sax.Parser
 * @see org.xml.sax.XMLReader
 * */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0-2-sources-2-
  jar/org/xml/sax/helpers/XMLReaderAdapter.java
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/**
 * Receive notification of the logical content of a document.
 * 
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.
 * </em>
 * </blockquote>
 * 
 * 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 [URL @link org.xml.sax.XMLReader#setContentHandler]
 * 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.</p>
*
* <p>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).</p>
*
* <p>Implementors should note that there is also a Java class
* [ @link java.net.ContentHandler ContentHandler ] in the java.net
* package; that means that it's probably a bad idea to do</p>
*
* <blockquote>
* import java.net.*;
* import org.xml.sax.*;
* </blockquote>
*
* <p>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
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a></p>
* @version 2.0
* @see org.xml.sax.XMLReader
* @see org.xml.sax.DTDHandler
* @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/ContentHandler.java
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/**
* SAX2 extension handler for lexical events.
*
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>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
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.

To set the LexicalHandler for an XML reader, use the
\{@link org.xml.sax.XMLReader#setProperty setProperty\} method with the propertyId "http://xml.org/sax/properties/lexical-handler". If the reader does not support lexical events, it will throw a
\{@link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException\} or a
\{@link org.xml.sax.SAXNotSupportedException SAXNotSupportedException\}
when you attempt to register the handler.

@since 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 1.0
@see org.xml.sax.XMLReader#setProperty
@see org.xml.sax.SAXNotRecognizedException
@see org.xml.sax.SAXNotSupportedException
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/LexicalHandler.java

1.475 unzip 6.0 20ubuntu1.1
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  *
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  *
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  * (Apple Macintosh Developer Technical Support Emeritus)
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Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code.
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten
and by default no longer contains any of Mr. Smith's code, Info-ZIP
remains indebted and grateful to him. We hope he finds our contribu-
tions as useful as we have his.
Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBUTES in the source distribution for a much more complete list of contributors.

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.

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

1.476 icu 55

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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 "\n\"s/\(\$\*)\o\[ :\]/\1.o $@ : /g\" > $@; \
[ -s $@ ] \| rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$($(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "\n\"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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1.477 ucarp 1.5.2-2

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1.478 glib 2.48.2

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End

1.479 websocket-server 0.4

1.479.1 Available under license :

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Metadata-Version: 1.0
Name: websocket-server
Version: 0.4
Summary: A simple fully working websocket-server in Python with no external dependencies
Home-page: https://github.com/Pithikos/python-websocket-server
Author: Johan Hanssen Seferidis
Author-email: manossef@gmail.com
License: MIT
Description: UNKNOWN
Platform: any

Found in path(s):
* /opt/cola/permits/1156384238_1619191399.7/0/websocket-server-0-4-tar-gz/websocket_server-0.4/websocket_server.egg-info/PKG-INFO

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Metadata-Version: 1.0
Name: websocket_server
Version: 0.4
Summary: A simple fully working websocket-server in Python with no external dependencies
Home-page: https://github.com/Pithikos/python-websocket-server
Author: Johan Hanssen Seferidis
Author-email: manossef@gmail.com
License: MIT
Description: UNKNOWN
Platform: any

Found in path(s):
* /opt/cola/permits/1156384238_1619191399.7/0/websocket-server-0-4-tar-gz/websocket_server-0.4/PKG-INFO

## 1.480 netty-resolver 4.1.47.Final

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* /opt/cola/permits/1151111106_1617788577.26/0/netty-resolver-4-1-47-final-sources-4-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1151111106_1617788577.26/0/netty-resolver-4-1-47-final-sources-4-jar/io/netty/resolver/InetSocketAddressResolver.java
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  jar/io/netty/resolver/RoundRobinInetAddressResolver.java
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* /opt/cola/permits/1151111106_1617788577.26/0/netty-resolver-4.1.47-final-sources-4.jar/io/netty/resolver/HostsFileEntries.java
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1.481 exhibitor-core 1.5.6

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 * http://code.google.com/p/jquery-appear/
 * 
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 */

Found in path(s):
* /opt/cola/permits/1151111106_1617788577.26/0/exhibitor-core-1-5-6-sources-2-jar/com/netflix/exhibitor/core/ui/js/jquery.appear-1.1.1.js

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*/

* jQuery blockUI plugin
* Version 2.39 (23-MAY-2011)
* @requires jQuery v1.2.3 or later
 * 
* Examples at: http://malsup.com/jquery/block/
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* http://www.gnu.org/licenses/gpl.html
* 
* Thanks to Amir-Hossein Sobhi for some excellent contributions!
*/
Found in path(s):
* /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
  jar/com/netflix/exhibitor/core/ui/js/jquery.blockUI.js
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/*
   http://www.JSON.org/json2.js
   2011-10-19

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This file creates a global JSON object containing two methods: stringif
y 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.

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:

text = JSON.stringify(["e", {pluribus: 'unum'}]);
// text is ["e",{"pluribus":"unum"}]
text = JSON.stringify(['e', {pluribus: 'unum'}], null, '	');  // text is '[
  "e",
  {
    "pluribus": "unum"
  }
]'

text = JSON.stringify([new Date()], function (key, value) {
  return this[key] instanceof Date ?
    'Date(' + this[key] + ') : value;
});  // text is ['"Date(---current time---)"']

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:

// 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\{2\})?Z$/i.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;
    }
  }
});
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 */

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  jar/com/netflix/exhibitor/core/state/Checker.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
  jar/com/netflix/exhibitor/core/s3/S3Client.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
  jar/com/netflix/exhibitor/core/entities/PathAnalysisRequest.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
  jar/com/netflix/exhibitor/core/index/QueryBuilder.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
  jar/com/netflix/exhibitor/core/index/ZooKeeperLogParser.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
  jar/com/netflix/exhibitor/core/config/PropertyBasedInstanceConfig.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
  jar/com/netflix/exhibitor/core/config/IntConfigs.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
  jar/com/netflix/exhibitor/core/rest/UITabImpl.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
  jar/com/netflix/exhibitor/core/controlpanel/ControlPanelValues.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
  jar/com/netflix/exhibitor/core/rest/JsonUtil.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
  jar/com/netflix/exhibitor/core/activity/ActivityLog.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
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- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/config/EncodedConfigParser.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/ExhibitorArguments.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/backup/SessionAndName.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/automanage/RemoteInstanceRequest.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/index/FieldNames.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/activity/ActivityQueue.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/config/zookeeper/ZookeeperPseudoLock.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/index/SearchItem.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/ConfigCollectionImpl.java
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- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/config/RollingConfigState.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/entities/PathAnalysisNode.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/index/EntryTypes.java
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- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/config/ConfigProvider.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/processes/ProcessTypes.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/backup/filesystem/FileSystemBackupProvider.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/index/LogEntryReceiver.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/config/RollingHostNamesBuilder.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/s3/PropertyBasedS3ClientConfig.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/config/AutoManageLockArguments.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/config/RollingReleaseState.java
- /opt/cola/permits/115111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
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* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
jar/com/netflix/exhibitor/core/state/ManifestVersion.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
jar/com/netflix/exhibitor/core/config/s3/S3ConfigAutoManageLockArguments.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
jar/com/netflix/exhibitor/core/rest/UIResource.java
* /opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2-
jar/com/netflix/exhibitor/core/config/PseudoLock.java

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 * @summary Scroller
 * @description Virtual rendering for DataTables
 * @file Scroller.js
 * @version 1.0.1
 * @author Allan Jardine (www.sprymedia.co.uk)
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jar/com/netflix/exhibitor/core/ui/js/Scroller.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
  */opt/cola/permits/1151111242_1617788609.6/0/exhibitor-core-1-5-6-sources-2.jar/com/netflix/exhibitor/core/activity/RepeatingActivity.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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1.482 pyflakes 2.1.1
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1.491 asm 5.0.4

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/ASMContentHandler.java
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*/
/**
* Creates a new JSRInliner. <i>Subclasses must not use this constructor</i>. 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#getName().getName()}). May be
* <tt>null</tt>.
* @throws IllegalArgumentException
* if a subclass calls this constructor.
*/

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/***
* Creates a new GeneratorAdapter. Subclasses must not use this
* constructor. Instead, they must use the
* {
*   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
 * 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
* constructor</i>. Instead, they must use the [@link #ClassNode(int)]
* version.
*
* @throws IllegalStateException
* If a subclass calls this constructor.
*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. 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/FieldInsnNode.java
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jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Handle.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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David Megginson
david@megginson.com
2000-01-14

1.494 ndg-httpsclient 0.4.0-3

1.494.1 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

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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
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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)

0.3.1
-----
* extended utils functions to support keyword for passing additional urllib2
handlers.

0.3.0
-----
* 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:

``url``
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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handlers.

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parameter for data to post in open_url and fetch_* methods.
* fix to ndg.httpsclient.utils module _should_use_proxy and open_url functions

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``-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.

```
setup(
    name='ndg_httpclient',
    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_httpclient/',
```
open_source_used_in_hyperflex_hx_data_platform_5.0(2a)  4886

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/*.*',
        'test/pki=localhost.*',
        'test/pki/cal/*.*'
    ],
},
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
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)

0.3.1
-----
* extended utils functions to support keyword for passing additional urllib2
handlers.

0.3.0
-----
* 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
* 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:

`url`
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
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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

1.495 jetty 9.4.24.v20191120

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Version: GnuPG v1.4.1 (GNU/Linux)
iD8DBQFDjMI6J97v2fW248RAmGNAJ9/krpkiYJRrJTMXVkl3cdnVvfU+QCFYFEh
pN0h9U/xdFTRMFsXYFHQeN4=
=24Hd
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E-Mail: jmcconnell@apache.org
Mailing Address: 7717 S 167th Street, Omaha, Ne. 68136

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iD8DBQFHacMO+jg6q+ULyBMRaky4AJ9CdNsmg8n2aFcpQAvEcEPXxEjIACgrvjMC/W/GuQFfCJykkL2jd9/Ag=
=ufUh
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-----

Eclipse

The following artifacts are EPL.
* 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

-----
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

org.eclipse.jetty.toolchain:jetty-schemas

-----
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 for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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E-Mail: jfarand@apache.org
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iD8DBQFE85cgaq9Frj/ClrIRAmuJAKCFgi4W0UOH8IUn+sV6PBHRF3BnLgCcDqqCZokt6bTHfwaa5TtxQbScw=
=N/w/
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iQEcBAEBAgABGQJQBb4tAAoJEMHhjBmtgF91HDcH/2nQDPuPztWFrBifnEeoLF6JlRUkfJzAPZaLDtDMfiDz7ucdRL1RDodmz4VIF2+fbKeBYQquZXfXIeEghz+tKriK30M12guFkNLdTeQrt9h2p3Zu9JU3K0y4m84IDWq72HRmh1nRyd6lzZFhDGDZ/D+69fF
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Full name: James Strachan
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Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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6etDJ6Auj0jTuS159hUsWMQ=
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Mailing Address: 4676 Admiralty Way, Suite 520
Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
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1.499 zlib 1.2.8

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1.500 binutils 2.26.1
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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 (objieee), 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-tfle 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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- `/opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/address/package-info.java`
- `/opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java`
- `/opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.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/util/X509KeyManagerWrapper.java`
- `/opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/address/DynamicAddressConnectHandler.java`
- `/opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-jar/io/netty/handler/ssl/PseudoRandomFunction.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/OpenSslContext.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/ApplicationProtocolConfig.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/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
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jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
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* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1151111360_1617788557.56/0/netty-handler-4-1-47-final-sources-3-
  jar/io/netty/handler/stream/ChunkedReader.java
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  jar/io/netty/handler/stream/ChunkedWriteHandler.java
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INF/maven/io.netty/netty-handler/pom.xml

1.502 pexpect 4.2.1

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1.503 python3-asn1crypto 0.24.0

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1.504 xz 5.1.1alpha+20120614 2ubuntu2

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1.506 xorg-sgml-doctools 1.11-1

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1.507 pip 9.0.1
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1.509 javassist 3.18.2-GA

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* /opt/cola/permits/1110923499_1606973622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/convert/TransformReadField.java
* /opt/cola/permits/1110923499_1606973622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1110923499_1606973622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/LocalVariableTypeAttribute.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/SymbolTable.java
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1.510 llvm-toolchain 3.8 2ubuntu4

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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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* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ConsoleReaderInputStream.java
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* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/ClassNameCompletor.java
* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/MultiCompletor.java
* /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
* /opt/cola/permits/1150919602_1617720658.61/0/jline-0-9-93-sources-2-jar/jline/SimpleCompletor.java
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Upstream Authors:
Michiel Sikkes <michiel@eyesopened.nl>
Michael Vogt <michael.vogt@ubuntu.com>
Sebastian Heinlein <glatzor@ubuntu.com>
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1.530 kerberos 1.13.2+dfsg 5ubuntu2

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cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
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
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.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
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

```c
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_imp_name
```

```c
lib/gssapi/mechglue/g_exp_sec_context
```

```c
lib/gssapi/mechglue/g_export_name
```

```c
lib/gssapi/mechglue/g_glue
```
<span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_imp_sec_context</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_init_sec_context</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_initialize</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_inquire_context</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_inquire_cred</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_inquire_names</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_process_context</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_buffer</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_cred</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_name</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_oid_set</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_seal</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_sign</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_store_cred</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_unseal</span><span class="o">.</span><span class="n">c</span>

<span class="o">/</span><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_userok</span><span class="o">.</span><span class="n">c</span>
and the initial implementation of incremental propagation, including the following new or changed files:

```
lib/kdb/iprop.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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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
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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:

.. parsed-literal::

    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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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
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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kprop/kpropd_rpc.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'\s*\*\*/', '', 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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Authors: maximilian attems <maks@debian.org>,
        Jeff Bailey <jbailey@ubuntu.com>,
        David Hrdeman <david@hardeman.nu>,
        Martin Michlmayr <tbm@cyrius.com>,
        Michael Prokop <mika@debian.org>,
        Scott James Remnant <scott@ubuntu.com>

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The "Artistic License"

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The End

1.557 go 1.6.4

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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.1.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Albert Yu <yukinying@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>
Alec Benzer <alec.benzer@gmail.com>
Aleksa Sarai <cyphar@cyphar.com>
Aleksandar Dezelin <dezelin@gmail.com>
Aleksandr Lukinykh <a.lukinykh@xsolla.com>
Aleksandr Razumov <ar@cydev.ru>
Aleksandr Artem <a.artem060@gmail.com>
Alessandro Arzilli <alessandro.arzilli@gmail.com>
Alessandro Baffa <alessandro.baffa@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alex.brainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Browne <stephenalexbrowne@gmail.com>
Alex Buchanan <buchanae@gmail.com>
Alex Carol <alex.carol.c@gmail.com>
Alex Gaynor <alex@alloy.us>
Alex Harford <alex.harford@saucelabs.com>
Alex Jin <toalexjin@gmail.com>
Alex Kohler <alexjohnkohler@gmail.com>
Alex Myasoedov <msoedov@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Tokarev <aleksator@gmail.com>
Alex Vaghin <crhyme@google.com>
Alex Zhirov <azhirov@google.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alex.ch>
Alexander F Rodseth <alexander.rodseth@appeartv.com>
Alexander Greim <alexxx@iltempo.de>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Lourier <aml@rulezz.ru>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Nohe <alex.nohe427@gmail.com>
Alexander Orlov <alexander.orlov@loxa1.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Poleyn <apolcyn@gmail.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surma1.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillian <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandreviau.net>
Alexandru Moot <brtsmr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalexand@google.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Naidonov <alexey.naidyonov@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexey Semenyuk <alexsemenyuk88@gmail.com>
Alexis Hildebrandt <surryhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@google.com>
Ali Farooq <ali.farooq0@pm.me>
Ali Rizvi-Santiago <arizvisa@gmail.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Allan Simon <allan.simon@supinfo.com>
Allen Li <ayatane@google.com>
Alok Menghrajan <alok.menghrajan@gmail.com>
Aman Gupta <aman@tmm1.net>
Amarjeet Anand <amarjeetanandsingh@gmail.com>
Amir Mohammad Saied <amir@gluegadget.com>
Amr Mohammed <merodiro@gmail.com>
Amrut Joshi <amрут.joshi@gmail.com>
An Long <aisk1988@gmail.com>
An Xiao <hac@zju.edu.cn>
Anand K. Mistry <anand@mistry.ninja>
Anders Pearson <anders@columbia.edu>
Anderson Queiroz <contato@andersonq.eti.br>
Andr Carvalho <asantostc@gmail.com>
Andr Martins <aanm90@gmail.com>
Andre Nathan <andre nth@gmail.com>
Andrea Nodari <andrea.nodari91@gmail.com>
Andrea Spadaccini <spadaccio@google.com>
Andreas Auernhammer <aead@mail.de>
Andreas Jellinghaus <andreas@ionisiert.de> <sanj@google.com>
Andreas Litt <andreas.litt@gmail.com>
Andrei Enshin <b1os@bk.ru>
Andrei Gherzan <andreii@resin.io>
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Arthur Khashaev <arthur@khashaev.ru>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvindh Rajesh Tamilmani <art@a-30.net>
Ashish Gandhi <ag@ashishgandhi.org>
Asim Shankar <asimshankar@gmail.com>
Atin Malaviya <amalaviy@akamai.com>
Ato Araki <ato.araki@gmail.com>
Audrey Lim <audreylh@gmail.com>
Audrius Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Varialus <varialus@gmail.com>
Aurlien Rainone <aurelien.rainone@gmail.com>
Aurlio A. Heckert <aurium@gmail.com>
Austin Clements <austin@google.com> <aclements@csail.mit.edu>
Avi Flax <avi@timehop.com>
awaw fumin <awawfumin@gmail.com>
Awn Umar <awn@cryptolosphy.io>
Axel Wagner <axel.wagner.hh@googlemail.com>
Ayan George <ayan@ayan.net>
Ayanamist Yang <ayanamist@gmail.com>
Ayke van Laethem <aykevanlaethem@gmail.com>
Aymerick Jhanne <aymerick@jehanne.org>
Azat Kaumov <kaumov.a.r@gmail.com>
Baiju Muthukadan <baiju.m.mail@gmail.com>
Balaram Makam <bmakam.qdt@qualcommdatalcenter.com>
Balazs Lecz <leczb@google.com>
Baokun Lee <nototon@gmail.com>
Barnaby Keene <accounts@southcla.ws>
Bartosz Grzybowski <melkorm@gmail.com>
Bartosz Oler <brtsz@gmail.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Haines <bhainesva@gmail.com>
Ben Hoyt <benhoyt@gmail.com>
Ben Laurie <ben@links.org> <benl@google.com>
Ben Lubar <ben.lubar@gmail.com>
Ben Lynn <benlynn@gmail.com>
Ben Olive <sionide21@gmail.com>
Ben Schwartz <bemasc@gmail.com>
Ben Shi <powerman1st@163.com>
Ben Toews <mastahyeti@gmail.com>
Benjamin Black <b@b3k.us>
Benjamin Cable <cable.benjamin@gmail.com>
Benjamin Hsieh <tanookiben@users.noreply.github.com>
Benjamin Peterson <benjamin@python.org>
Benjamin Prosnitz <bprosnitz@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Koch <chrisko@google.com>
Christopher Loessl <loessl+github@gmail.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@google.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clement Chigot <clement.chigot@atos.net>
Clement Skau <clementska@gmail.com>
Clint J. Edwards <clint.j.edwards@gmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Arnott <colin@urandom.co.uk>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Nelson <colnnelson@google.com>
Colin Rice <clr@google.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Conrado Gouvea <conradoplg@gmail.com>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Corey Thomasson <cthom.lists@gmail.com>
Corne van der Plas <vdplas@gmail.com>
Cosmos Nicolau <cnicolau@google.com>
Costin Chirvasuta <ctin@gmail.com>
Craig Citro <craigcitro@gmail.com>
Cristian Staretu <unclejacksons@gmail.com>
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>
Cyrill Schumacher <cyrill@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daisuke Suzuki <daisuzu@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <42@dmathieu.com>
Damien Neil <dneil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fshahriar@gmail.com>
Federico Bond <federicobond@gmail.com>
Federico Simoncelli <fisimonce@redhat.com>
Fedor Indutny <fedor@indutny.com>
Fedor Korotkiy <dartslon@gmail.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Bnemann <Felix.Buenemann@gmail.com>
Felix Cornelius <9767036+fcornelius@users.noreply.github.com>
Felix Geisendrfer <haimuiiba@gmail.com>
Felix Kollmann <fk@konsorten.de>
Ferenc Szabo <frncmx@gmail.com>
Filip Gruszczynski <gruszczy@gmail.com>
Filip Haglund <drathier@users.noreply.github.com>
Filip Stanis <fstanis@google.com>
Filippo Valsorda <filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Forster <octo@google.com>
Florian Uekermann <florian@uekermann-online.de> <fl1@uekermann-online.de>
Florian Weimer <fw@denel.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francesco Renzi <rentziass@gmail.com>
Francisco Claude <fclaude@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscossouza@gmail.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <fsomers@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Frederik Zipp <fzipp@gmx.de>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>
Frits van Bommel <fvbommel@gmail.com>
Fujimoto Kyosuke <kyoro.f@gmail.com>
Fumitoshi Ukai <ukai@google.com>
G. Hussain Chinoy <ghchino@gmail.com>
Gaal Yahas <gaal@google.com>
Gabrel Arthr Pthursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Guzman <gabe.guzman@gmail.com>
GitHub User @DQNEO (188741) <dqneoo@gmail.com>
GitHub User @Dreamacro (8615343) <chuainian@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @fatedier (7346661) <fatedier@gmail.com>
GitHub User @frennkie (6499251) <mail@rhab.de>
GitHub User @geedchin (11672310) <geedchin@gmail.com>
GitHub User @GrigoriyMikhalkin (3637857) <grigoriymikhalkin@gmail.com>
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jinmiao0luo (39730824) <jinmiao0luo@icloud.com>
GitHub User @jopbrown (6345740) <smsshane2008@gmail.com>
GitHub User @kazysr (30496953) <kazysr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micncnim (21333876) <micncnim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @nu50218 (40682920) <nu_ll@icloud.com>
GitHub User @OlgaVLPetrova (44112727) <OVPpetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @Pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saitarunredddy (21041941) <saitarunredddy@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashio (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uuropek (39370426) <uroleum@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuahhh (1298735) <yuahhh415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyuheng@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Henry Wong <liushuai.wang@elastic.co>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie.google.com>
Heschi Kreinick <heschi.google.com>
Hidetatsu Yaginuma <ygnmhdtt@gmail.com>
Hiiko Bengen <bengen@hilluzination.de>
Hiroaki Nakamura <hnakamur@gmail.com>
Hiromichi Ema <ema.hiro@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <ttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Horacio Duran <horacio.duran@gmail.com>
Horst Rutter <hrutter@gmail.com>
Hossein Sheikh Attar <hattar.google.com>
Howard Zhang <howard.zhang@arm.com>
Hsin Tsao <tsao@gmail.com>
Hsin-Ho Yeh <yhh92u@gmail.com>
Hu Keping <hukeping@huawei.com>
Huan Du <i@huandu.me>
Hugues Bruant <hugues.bruant@gmail.com>
Huy Le <huy.dinh.le.89@gmail.com>
Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>
Hyoyoung Chang <hyoyoung@gmail.com>
Ian Cottrell <iancottrell@gmail.com>
Ian Davis <nospam@iandavis.com>
Ian Gudger <ian@loosescre.ws>
Ian Haken <ihaken@netflix.com>
Ian Kent <iankent85@gmail.com>
Ian Lance Taylor <iant@golang.org>
Ian Leue <ian@appboy.com>
Ian Zapolsky <ianzapolsky@gmail.com>
Ibrahim AshShohail <ibra.sho@gmail.com>
Icarus Sparry <golang@icarus.freenuk.com>
Iccha Sethi <icchasehith@gmail.com>
Idora Shinatose <idora.shinatose@gmail.com>
Ignacio Hagopian <jsign.uy@gmail.com>
Igor Bernstein <igorbernstein@google.com>
Igor Dolzhikov <bluesriverz@gmail.com>
Igor Vashyst <ivashyst@gmail.com>
Igor Zhilianin <igor.zhilianin@gmail.com>
Illya Yalovyy <yalovoy@gmail.com>
Ilya Sinelnikov <sidhmangh@gmail.com>
Ilya Tocar <ilya.tocar@intel.com>
INADA Naoki <songofacandy@gmail.com>
Inanc Gumus <m@inanc.io>
Ingo Gottwald <in.gottwald@gmail.com>
Ingo Krabbe <ikrabbe.ask@gmail.com>
Ingo Oeser <nightlyone@gmail.com>
Ioannis Georgoulas <geototti21@hotmail.com>
Irbe Krumina <irbekrm@gmail.com>
Irfan Sharif <irfanmahmoudsharif@gmail.com>
Irieda Noboru <irieda@gmail.com>
Isaac Ardis <isaac.ardis@gmail.com>
Isaac Wagner <ibw@isaacwagner.me>
Isfan Azhahil <isfanazhahil@gmail.com>
Iskander Sharipov <iskander.sharipov@intel.com> <quasilyte@gmail.com>
Issac Trotts <issactrotts@gmail.com>
Ivan Babrou <ivan@cloudflare.com>
Ivan Bertona <ivan.bertona@gmail.com>
Ivan Krasin <krasin@golang.org>
Ivan Kutuzov <arbrix@gmail.com>
Ivan Markin <sw@nogoegst.net>
Ivan Moscoso <moscoso@gmail.com>
Ivan Osadchii <ivan.osadchii@gmail.com>
Ivan Sharavuev <shpiwan@gmail.com>
Ivan Trubach <mr.trubach@icloud.com>
Ivan Ukho <ivan.ukho@gmail.com>
Ivy Evans <ivy@ivyevans.net>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>
Jaap Aarts <jaap.aarts1@gmail.com>
Jack Britton <jackxbritton@gmail.com>
Jack Lindamood <jlindamo@justin.tv>
Jacob Baskin <jbaskin@google.com>
Jacob Blain Christen <dweomer5@gmail.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jacob Walker <jacobwalker0814@gmail.com>
Jae Kwon <jae@tendermint.com>
Jake B <doogie1012@gmail.com>
Jakob Borg <jakob@nym.se>
Jakob Weisblat <jakobw@mit.edu>
Jakub ajka <jaajka@redhat.com>
Jakub Kaczmarzyk <jakubk@mit.edu>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 5460

Jerrin Shaji George <jerrinsg@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jesse Szwedko <jesse.szwedko@gmail.com>
Jess Espino <jespinog@gmail.com>
Jia Zhan <jzhan@uber.com>
Jiacai Liu <jiacai2050@gmail.com>
Jianing Yu <jnyu@google.com>
Jianqiao Li <jianqiaoli@google.com>
Jie Ma <jenius@outlook.com>
Jihyun Yu <yjh0502@gmail.com>
Jim Cote <jfcote87@gmail.com>
Jim Kingdon <jim@bolt.me>
Jim McGrath <jimmc2@gmail.com>
Jim Minter <jminter@redhat.com>
Jimmy Frasche <soapboxcicero@gmail.com>
Jimmy Zelinskie <jimmyzelinskie@gmail.com>
Jin-wook Jeong <jeweljar@hanmail.net>
Jingcheng Zhang <diogin@gmail.com>
Jingguo Yao <yaojingguo@gmail.com>
Jingnan Si <jingnan.si@gmail.com>
Jinkun Zhang <franksnolf@gmail.com>
Jiong Du <londevil@gmail.com>
Jirka Dank <dnk@mail.muni.cz>
Jiulong Wang <jiulongw@gmail.com>
Joakim Sternbrant <serbaut@gmail.com>
Joe Bowbeer <joe.bowbeer@gmail.com>
Joe Cortopassi <joe@joecortopassi.com>
Joe Farrell <joe2farrell@gmail.com>
Joe Harrison <joehazzers@gmail.com>
Joe Henke <joed.henke@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Joe Poirier <jdpoirier@gmail.com>
Joe Richey <joerichey@google.com>
Joe Shaw <joe@joeshaw.org>
Joe Sylve <joe.sylve@gmail.com>
Joe Tsai <joetsai@digital-static.net>
Joel Sing <joel@sing.id.au> <jsing@google.com>
Jol Stemmer <jstemmer@redhat.com>
Jol Stemmer <stemmertech@gmail.com>
Joey Geiger <jgeiger@users.noreply.github.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
Johan Euphrosine <proppy@google.com>
Johan Jansson <johan.jansson@iki.fi>
Johan Sageryd <j@1616.se>
John Asmuth <jasmuth@gmail.com>
John Beisley <huin@google.com>
John C Barstow <jbowtie@amathaine.com>
John DeNero <denero@google.com>
Kyle Nusbaum <kyle@datadog.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrilo Silin <silin@kyrilo.org>
L. Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lanm@nmsral.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars.larsenal@gmail.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonardo Comelli <leonardo.comelli@gmail.com>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Liam Haworth <liam@haworth.id.au>
Lily Chung <lilithkchung@gmail.com>
Lion Yang <lion@aosc.xyz>
Liz Rice <liz@lizrice.com>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmmb@cloudflare.com>
Lorenz Brun <lorenz@brun.one>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louis@k@gmail.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 5466

Lucas Clemente <lclemente@google.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@luekgb.com>
Luke Young <bored-engineer@users.noreply.github.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@gmail.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mpeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbksi <maciejd@gmail.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishmail@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@gmail.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <nmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanmiquel <marcsanmiquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freheit.com>
Marcus Weiner <marcus.weiner@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius.grailbio.com>
Marius Nuennnerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Glines <mark@glines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@gmail.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salamon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Asquino <martin.asquino@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrman <moehrmann@gmail.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <anty.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Masaya Watanabe <sfbgwm30@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulyas <mgulyas86@gmail.com>
Matej Bao <matejbao@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapinski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <Mathieu.Lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@github.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@github.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matt.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@github.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthieu Hauglustaine <matthijs@stdin.nl>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenik <maxsem.wiki@gmail.com>
Max Ushakov <ushmax@gmail.com>
Maxim Eryomenko <moeryomenko@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Pugachev <pugachev.mm@gmail.com>
Maxim Ushakov <ushakov@google.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com> <mzh@golangcn.org>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knyszek <mknyszek@google.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Cook <code@mdcook.net>
Michael Darakananda <pongad@google.com>
Michael Dorner <mail@michaeldorner.de>
Michael Edwards <medwards@walledcity.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Ellis <micellis@justin.tv>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Fromberger <michael.j.fromberger@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>
Michael Henderson <mdhender@users.noreply.github.com>
Michael Hendricks <michael@ndrix.org>
Michael Hoisie <hoisie@gmail.com>
Michael Hudson-Doyle <michael.hudson@linaro.org>
Michael Kasch <michael.kasch@gmail.com>
Michael Kufi <golang@c.michael-kaeufl.de>
Michael Kelly <mjk@google.com>
Michael Lewis <mikelikespie@gmail.com>
Michael MacInnis <Michael.P.MacInnis@gmail.com>
Michael Marineau <michael.marineau@coreos.com>
Michael Matloob <matloob@gmail.com>
Michael McConville <momcconville@gmail.com>
Michael McGreavy <mcgreavy@golang.org>
Michael McLoughlin <mmcloughlin@gmail.com>
Michael Munday <mike.munday@ibm.com>
Michael Pearson <mipearson@gmail.com>
Michael Piatek <piatek@google.com>
Michael Pratt <mpratt@google.com>
Michael Schaller <michael@5challer.de>
Michael Schurter <michael.schurter@gmail.com>
Michael Shields <mshields@google.com>
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>
Michael Steinert <mike.steinert@gmail.com>
Michael T. Jones <mtj@google.com> <michael.jones@gmail.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 5470

Michael Teichgrber <mteichgaeber@gmx.de> <mt4swm@googlemail.com>
Michael Traver <mtraver@google.com>
Michael Vetter <g.bluehut@gmail.com>
Michael Vogt <mvo@ubuntu.com>
Michal Bohuslivek <nbohuslivek@gmail.com>
Michal Cierniak <cierniak@google.com>
Micha Derkacz <ziutek@iinet.pl>
Michal Franc <lam.michal.franc@gmail.com>
Micha owicki <mlowicki@gmail.com>
Michal Pristas <michal.pristas@gmail.com>
Michal Rostecki <mrostecki@suse.de>
Michalis Kargakis <michaliskargakis@gmail.com>
Michel Lespinasse <walken@gmail.com>
Mickael Kerjean <mickael.kerjean@gmail.com>
Mickey Reiss <mickeyreiss@gmail.com>
Mieg Gieben <miekg@miekg.nl> <remigius.gieben@gmail.com>
Miguel Acero <acero@iail.com>
Miguel Mendez <stxmenendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todormihai@gmail.com>
Mihail Minan <minan@e mike.com>
Mikael Tilenius <miki42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.ley.org>
Mike Danese <mikedanese@gmail.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msoolo@gmail.com>
Mike Strosaker <strosak@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@gmail.com>
Mikhail Fesenko <proggga@gmail.com>
Mikhail Gubarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeke <miki.tebeke@gmail.com>
Mikio Haru <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <mikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milan Patel <bicelot3@gmail.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Mirko Hansen <baaazen@gmail.com>
Nicholas Ng <nickng@nickng.io>
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Nick Anthony <Liberatys@outlook.com>
Nick Cooper <nmvc@google.com>
Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com>
Nick Harper <nharper@google.com>
Nick Kubala <nkubala@google.com>
Nick Leli <nicholasleli@gmail.com>
Nick Miyake <nmiyake@users.noreply.github.com>
Nick Patavalis <nick.patavalis@gmail.com>
Nick Petroni <npetroni@cs.umd.edu>
Nick Robinson <nrobinson13@gmail.com>
Nick Smolin <nick27surgut@gmail.com>
Nicolas BRULEZ <n.brulez@gmail.com>
Nicolas Kaiser <nikai@nikai.net>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>
Niek Sanders <niek.sanders@gmail.com>
Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nik Nyby <nnby@columbia.edu>
Nikhil Benesch <nikhil.benesch@gmail.com>
Nikita Gillmann <nikita@n0.is> <ng0@n0.is>
Nikita Kryuchkov <nkryuchkov10@gmail.com>
Nikita Vanyasin <nikita.vanyasin@gmail.com>
Niklas Schnelle <niklas.schnelle@gmail.com>
Niko Dziemba <niko@dzielma.com>
Nikolay Turpitko <nikolay@turpitko.com>
Nikson Kanti Paul <nikson.sust@gmail.com>
Nils Larsgrd <nilsmagnus@gmail.com>
Nir Soffer <nirsof@gmail.com>
Niranjan Godbole <niranjan8192@gmail.com>
Nishanth Shanmugham <nishanth.gerrard@gmail.com>
Noah Campbell <noahcampbell@gmail.com>
Noah Goldman <noahg34@gmail.com>
Noble Johnson <noblepoly@gmail.com>
Nodir Turakulov <nodir@google.com>
Noel Georgi <git@frezbo.com>
Norberto Lopes <nlopes.ml@gmail.com>
Norman B. Lancaster <qbradq@gmail.com>
Nuno Cruces <ncruces@users.noreply.github.com>
Obeyda Djeffal <djeffo8y@gmail.com>
Odin Ugedal <odin@ugedal.com>
Oleg Bulatov <dimage@yandex-team.ru>
Oleg Vakheta <helginet@gmail.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 5474

Paul Hankin <paulhankin@google.com>
Paul Jolly <paul@myitcv.org.uk>
Paul Lalonde <paul.a.lalonde@gmail.com>
Paul M Furley <paul@paulfurley.com>
Paul Marks <pmarks@google.com>
Paul Meyer <paul.meyer@microsoft.com>
Paul Nasrat <pnsrat@google.com>
Paul PISCUC <paul.piscuc@gmail.com>
Paul Querna <querna@apache.org>
Paul Rosania <paul.rosania@gmail.com>
Paul Ruest <pruest@gmail.com>
Paul Sbarra <Sbarra.Paul@gmail.com>
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
Paul Tyng <paul@paultyng.net>
Paul van Brouwershaven <paul@vanbrouwershaven.com>
Paul Wankadia <junyer@google.com>
Paulo Casaretto <pcasaretto@gmail.com>
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>
Paulo Gomes <paulo.gomes.uk@gmail.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ymkins@gmail.com>
Pawel Knap <pawelknap88@gmail.com>
Pawel Szczur <filemon@gmail.com>
Pei Xian Chee <luciolas1991@gmail.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Petar Dambovaliev <petar.atanasov.1987@gmail.com>
Petar Maymounkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@gmail.com>
Peter Conerly <pconerly@gmail.com>
Peter Dotchev <dotchev@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@gmail.com>
Peter Hoyes <pahoyes@gmail.com>
Peter Kleiweg <pkeiweg@xs4all.nl>
Peter McKenzie <petermck@gmail.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Pter Surnyi <speter.go1@gmail.com>
Pter Szab <pts@gmail.com>
Pter Szilgyi <peterke@gmail.com>
Peter Teichman <pteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
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Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petr Jediny <petr.jediny@gmail.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <spdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephani <phst@google.com>
Pierre Carru <pierre.carru@eshard.com>
Pierre Durand <pierrerdurand@gmail.com>
Pierre Prinetii <pierreprinetti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellowpier.com>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Polina Osadcha <poliosa@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Povilas Versockas <p.pversockas@gmail.com>
Prasanga Siripala <pj@pjes.com.au>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Agrawal <prashant.a.vjti@gmail.com>
Prashant Varanasi <prashant@prashantv.com>
Praveen Kumar <praveen@kumar.in>
Pravendra Singh <hackpravyj@gmail.com>
Preetam Jinka <pj@preet.am>
Pure White <wu.purewhite@gmail.com>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <ilsh1022@gmail.com>
Quan Tran <qued.quan@gmail.com>
Quan Yong Zhai <quyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quey-Liang Kao <s101062801@m101.nthu.edu.tw>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
RagHAVendra Nagaraj <sjamdagni86@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Raph Levien <raph@google.com>
Raphael Geronini <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Ravil Bikbulatov <weeezzz12@gmail.com>
RaviTeja Pothena <ravi.tezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Raymond Kazlauskas <rama220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Rmy Oudompheng <oudompe@phare.normalesup.org> <remyoudompheng@gmail.com>
Ren Ogaki <re.yuz77777@gmail.com>
Rens Rikkerink <lkkerens@users.noreply.github.com>
Rhys Hiltner <rhys@justin.tv>
Ricardo Padilha <ricardopadilha@gmail.com>
Ricardo Seriani <ricardo.seriani@gmail.com>
Richard Barnes <rlb@ipv.sx>
Richard Crowley <rcrowley.org>
Richard Dingwall <rdingwall@gmail.com>
Richard Eric Gavaletz <gavaletz@gmail.com>
Richard Gibson <richard.gibson@gmail.com>
Richard Miller <miller.research@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Richard Ulmer <codesoap@mailbox.org>
Richard Wilkes <wilkes@me.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rlh@golang.org>
Rick Sayre <whorfin@gmail.com>
Rijnard van Tonder <rvantonder@gmail.com>
Riku Voipio <riku.voipio@linaro.org>
Risto Jaakko Saarelma <rsaarelm@gmail.com>
Rob Earhart <earhart@google.com>
Rob Findley <rfindley@google.com>
Rob Norman <rob.norman@infinitycloud.com>
Rob Phoenix <rob@robfhoenix.com>
Rob Pike <r@golang.org>
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 5479

Scott Mansfield <smansfield@netflix.com>
Scott Ragan <ragansa@fb.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@gmail.com>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <sean@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@gmail.com>
Sean Liao <seankhliao@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Chlopecki <sebsebmc@gmail.com>
Sebastian Kinne <skinne@gmail.com>
Sebastian Schmidt <yath@gmail.com>
Sebastien Binet <seb.binet@gmail.com>
Sebastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Lemeshkin <sergeilem@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergei Zagurskii <gvozdoder@gmail.com>
Sergey ‘SnakE’ Gromov <snake.scally@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synesis.ru>
Sergey Frolov <sfrlov@gmail.com>
Sergey Glushchenko <gs serge@gmail.com>
Sergey Ivanov <ser1325@gmail.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhat Giydiren <serhatgiydiren@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shang Jian Ding <sding3@ncsu.edu>
Shaozhen Ding <dsz0111@gmail.com>
Shaquille Wyan Que <shaqqywyan@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
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Shawn Elliott <selliott@microsoft.com>
Shawn Ledbetter <sledbetter@google.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walkersalas@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengjing Zhu <zsj950618@gmail.com>
Shengyu Zhang <shengyu.zhang@chaityn.com>
Shi Han Ng <shghanng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivashis Padhi <shivashispadhi@gmail.com>
Shubham Sharma <shubham.sha12@gmail.com>
Shun Fan <sfan@gmail.com>
Silvan Jegen <s.jegen@gmail.com>
Simarpreet Singh <simar@linux.com>
Simon Drake <simondrake1990@gmail.com>
Simon Ferquel <simon.ferquel@docker.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Rozman <simon@rozman.si>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Soojin Nam <jsunam@gmail.com>
Sren L. Hansen <soren@linux2go.dk>
Spencer Kocot <spencerkocot@gmail.com>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@gmail.com>
Spring Mc <heresy.mc@gmail.com>
Srđjan Petrović <spetrovic@gmail.com>
Sridhar Venkatakrishnan <sridhar@laddoo.net>
Srinidhi Kaushik <shrinidhi.kaushik@gmail.com>
StalkR <stalkr@stalkr.net>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <sphp.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baebler <sbaebler@outbrain.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessor@gmail.com>
Stepan Shabalin <neverliberty@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stephan Zuercher <zuercher@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xry23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xiangdong Ji <xiangdong.ji@arm.com>
Xing Xing <mikespook@gmail.com>
Xinggang Bai <bxq2011hust@qq.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicealias.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <yktzs@desire.sh>
Yan Zou <yzou@google.com>
Yang Hau <vulx0j8j8@gmail.com>
Yang Tian <linuxty@gmail.com>
Yann Hodique <yhodique@google.com>
Yann Kerherv <yann.kerherve@gmail.com>
Yann Salan <yannsalaun1@gmail.com>
Yannic Bonenberger <contact@yannic-bonenberger.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@gmail.com>
Yaroslav Vorobiov <yar.vorobiov@gmail.com>
Yasha Bubnov <girokompass@gmail.com>
Yasser Abdulmaleki <yasser@yasser.ca>
Yasuharu Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yasuuki Oka <yasuuky@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <ylh@pdx.edu>
Yesudeep Mangalapilly <yesudeep@google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yohei Takeda <yo.tak0812@gmail.com>
Yongjian Xu <i3dmaster@gmail.com>
Yorman Arias <cixtords@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yuichi Kishimoto <yk2220s@gmail.com>
Yuichi Nishiwaki <yuichi.nishiwaki@gmail.com>
Yuji Yaginuma <yuuju.yaginuma@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yugui Sonoda <yugui@google.com>
Yukihiro Nishinaka <gelpinal@gmail.com>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
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# Names should be added to this file as:
# Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolf@gmail.com>
Andrew Hunter <andrewhhunter@gmail.com>

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1.558 python-cffi 1.5.2-1ubuntu1

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1.561 python-defaults 2.7.11-1

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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
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.

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Benoit Sigoure <tsuna@google.com>
Bogdan Piloca <boo@google.com>
Chandler Carruth <chandlerc@google.com>
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Mark Paskin
Markus Heule <markus.heule@gmail.com>
Matthew Simmons <simmonnt@acm.org>
Mike Bland <mbland@google.com>
Neal Norwitz <nnorwitz@gmail.com>
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Paneendra Ba <paneendra@gmail.com>
Paul Menage <menage@gmail.com>
Piotr Kaminski <piotr@pentad.com>
Russ Rufer <russ@pentad.com>
Sverre Sundsdal <sundsdal@gmail.com>
Takeshi Yoshino <tyoshino@gmail.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Wolfgang Klier <wklier@google.com>
Zhanyong Wan <wan@gmail.com>

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include/GL/glxext.h
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1.567 python-setuptools 49.6.0

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1.571 libxv 1.0.10 1

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1.572 error_prone_annotations 2.3.3

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Found in path(s):
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/FormatString.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/UseSingleQuotes.java

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jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
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* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-
jar/com/google/errorprone/annotations/ForOverride.java
1.573 netty-codec 4.1.47.Final

1.573.1 Available under license:

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Manifest-Version: 1.0
Implementation-Title: Netty/Codec
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
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec
Implementation-Version: 4.1.47.Final
Built-By: root
Bnd-LastModified: 1583757207060
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
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
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/

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1.574 icu 4.8.1.1-3ubuntu0.7
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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

1.575 expat 1.95.8

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1.576 nginx 1.12.0

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1.577 gconf 3.2.6 3ubuntu6

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Version 2, June 1991

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1.578 zlib 1.2.11
1.578.1 Available under license :
/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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1.579 hd-parm 9.48+ds-1

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jar/scala/reflect/api/TypeTags.scala
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jar/scala/reflect/macros/package.scala
* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-
jar/scala/reflect/runtime/SynchronizedOps.scala
* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-
jar/scala/reflect/runtime/SymbolTable.scala
* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-
jar/scala/reflect/io/FileNotFoundException.scala
* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-
jar/scala/reflect/internal/util/ScalaClassLoader.scala
* /opt/cola/permits/1136635797_1613819028.17/0/scala-reflect-2-12-8-sources-2-
jar/scala/reflect/macros/Infrastructure.scala
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Julian Seward, jseward@bzip.org
libbzip2 version 1.0.6 of 6 September 2010

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abstract: 'Build and install Perl modules'
The "Artistic License"

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The End
#!perl

=head1 NAME

copyright.t
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.

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

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

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

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

done_testing;

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

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

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

$year;
}
}

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

$year;
}

1.589 libntlm 1.4 7
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  jar/io/netty/handler/ssl/OpenSslSession.java
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* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
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* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
 * /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
 * /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
 * /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/SslContextBuilder.java
 * /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
 * /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/ClientAuth.java
 * /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/flush/package-info.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
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* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
jar/io/netty/handler/ssl/AbstractSniHandler.java
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jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

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* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1258121192_1643033085.03/0/netty-handler-4-1-50-final-sources-
  jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

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- Ajay Joshi <jaj@google.com>
- Balzs Dn <balazs.dan@gmail.com>
- Bharat Mediratta <bharat@menalto.com>
- Chandler Carruth <chandlerc@google.com>
- Chris Prince <cprince@google.com>
- Chris Taylor <taylorc@google.com>
- Dan Egnor <egnor@google.com>
- Eric Roman <eroman@chromium.org>
- Hady Zalek <hady.zalek@gmail.com>
- Jeffrey Yasskin <jyasskin@google.com>
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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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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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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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1.605 kbd 1.15.5 1ubuntu5

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```
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#
# 0 leshort  0x0436  psf screen font data
# 2 byte  0  256 characters, no index
# 2 byte  1  512 characters, no index
# 2byte2256 characters, Unicode index
# 2byte3512 characters, Unicode index
# 2byte4256 characters, Unicode level 2 index
# 2byte5512 characters, Unicode level 2 index
# 3byte8x%d
#
```

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          src/kbd_mode.c src/loadunimap.c src/psffontops.c src/psfxtable.c
          src/resizecons.c src/screendump.c src/setkeycodes.c src/setleds.c
          src/setmetamode.c src/setvesablank.c src/showconsolefont.c
          src/spawn_console.c src/spawn_login.c man/man1/chvt.1
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Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,
Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at sus dot de>,
Kurt Garloff <garloff at sus dot de>,
Grant Grundler <grundler at parisc-linux dot org>,
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src/getentropy_aix.c
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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/vis.3
man/wcslepy.3
src/getbsize.c
src/heapsort.c
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1.618 snake-yaml 1.23

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1.619 pyyaml 5.3

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```
lib/krb5/kadm5/kadm_host_srv_names.c
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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_cread.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_reb_buffer.c
    lib/gssapi/mechglue/g_reb_cread.c
    lib/gssapi/mechglue/g_reb_name.c
    lib/gssapi/mechglue/g_reb_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:

.. parsed-literal::

   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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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.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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# and license statements in source code comments.

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
        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'^\* ([^ ]*)\(-.*?\)\s*/', 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
    if 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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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
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)

This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode('.
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

    # Python 2
    >>> import idna
    >>> idna.encode(u'.
    'xn--eckwd4c7c.xn--zckzah'
    >>> print idna.decode('xn--eckwd4c7c.xn--zckzah')

Packages
--------

The latest tagged release version is published in the PyPI repository:
Installation
------------

To install this library, you can use pip:

.. code-block:: bash

    $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

    $ python setup.py install

This library works with Python 2.6 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.

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode('.')
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
    .

You may use the codec encoding and decoding methods using the `idna.codec` module:

.. code-block:: pycon

    # 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 2
>>> idna.alabel(u"
'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

```
# 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.

```
```
# Python 2

```python
>>> 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
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```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',
        ]
```
setup(**arguments)
if __name__ == '__main__':
    main()

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1.637 linux-atm 2.5.1-1.5

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Linus Torvalds

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Version 2, June 1991

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1.638 x11proto-kb 1.0.7-0ubuntu1

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Gilles Quillard <gilles.quillard@bull.net>
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

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

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

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.
Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.
The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

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

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

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

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

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

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

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

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

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

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

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

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

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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
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application. Therefore, Subsection 2d requires that any
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be optional; if the application does not supply it, the square
root function must still compute square roots.)
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@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
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**1.650 dhcp 4.3.3-5ubuntu12.7**

**1.650.1 Available under license :**

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0
Source: http://www.isc.org/downloads/dhcp
Files-Excluded:
aclocal.m4
bind
compile
config.*
configure
depcomp
install-sh
*/Makefile.in
missing
doc/References.txt
doc/References.html
1.651 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;

    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)

# SPECIAL_TOKEN:

- 
- "\n"
- "\r"

SPECIAL_TOKEN:
{  
  "//" : WithinOneLineComment  
}

<WithinOneLineComment> SPECIAL_TOKEN :  
{  
  <("\n" | "\r" | "\r\n")> : DEFAULT  
}

<WithinOneLineComment> MORE :  
{  
  <->[]>  
}

SPECIAL_TOKEN :  
{  
  "/*" : WithinMultiLineComment  
}

<WithinMultiLineComment> SPECIAL_TOKEN :  
{  
  "*/" : DEFAULT  
}

<WithinMultiLineComment> MORE :  
{  
  <->[]>  
}

TOKEN :  
{  
  <MODULE_TKN: "module">  
  | <RECORD_TKN: "class">  
  | <INCLUDE_TKN: "include">  
  | <BYTE_TKN: "byte">  
  | <BOOLEAN_TKN: "boolean">  
  | <INT_TKN: "int">  
  | <LONG_TKN: "long">  
  | <FLOAT_TKN: "float">  
  | <DOUBLE_TKN: "double">  
  | <USTRING_TKN: "ustring">  
  | <BUFFER_TKN: "buffer">  
  | <VECTOR_TKN: "vector">  
  | <MAP_TKN: "map">  
  | <LBRACE_TKN: "{">  
  | <RBRACE_TKN: "}">  
  | <LT_TKN: "<">  
  | <GT_TKN: ">">
JFile Input() :
{
ArrayList<JFile> ilist = new ArrayList<JFile>();
ArrayList<JRecord> rlist = new ArrayList<JRecord>();
JFile i;
ArrayList <JRecord>l;
}
{
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   |
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>
        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;
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```java
JMap Map() {
    <MAP_TKN>
    <LT_TKN>
    jt1 = Type();
    <COMMA_TKN>
    jt2 = Type();
    <GT_TKN>
    { return new JMap(jt1, jt2); }

```}

```java
JVector Vector() {
    <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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*/
```

Found in path(s):
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
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/Token.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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 */

Found in path(s):
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
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/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/txn/CreateTxnV0.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/GetChildren2Response.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/CheckVersionTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/StatPersisted.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/DeleteTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/DeleteRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/SetDataResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/GetAllChildrenNumberRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/RequestHeader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/ErrorTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/txn/SetACLTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/zookeeper/proto/ExistsResponse.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/RecordReader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JField.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/JCompType.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JavaGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/CGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JByte.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/RecordReader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/ToStringOutputArchive.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/OutputArchive.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JBoolean.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/RecordWriter.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JFloat.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JString.java

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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/package.html
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/package.html

1.652 sqlite 3.28.4
1.652.1 Available under license:
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1.653 swagger-annotations 1.5.10
1.653.1 Available under license:
/

*/

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 "";
}

1.654 jersey-common 2.23
1.654.1 Available under license :
CDDL+GPL License
http://glassfish.java.net/public/CDDL+GPL_1_1.html

1.655 ossp-uuid 1.6.2-1.5build2
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ui128.c: implementation of 128-bit unsigned integer arithmetic

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** uuid.h: library API definition
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** uuid_sha1.h: SHA-1 API definition
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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

OSSP uuid UUID_VERSION_STR

=head1 DESCRIPTION

B<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 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 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] [16]
time_low time_mid _and_version

[<------------------------><----------><---------->]
| MSB || || |
| /  || || |
| /  || || |
```

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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:

```
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>
```

---

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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"
|"a"|"b"|"c"|"d"|"e"|"f"
|"A"|"B"|"C"|"D"|"E"|"F"

An example of a UUID string representation is the ASCII string "C<f81d4fae-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.

=back

=head2 UUID Uniqueness

Version 1 UUIDs are guaranteed to be unique through combinations of hardware addresses, time stamps and random seeds. There is a reference in the UUID to the hardware (MAC) address of the first network interface card (NIC) on the host which generated the UUID -- this reference is intended to ensure the UUID will be unique in space as the MAC address of every network card is assigned by a single global authority (IEEE) and is guaranteed to be unique. The next component in a UUID is a timestamp which, as clock always (should) move forward, will be unique in time. Just in case some part of the above goes wrong (the hardware address cannot be determined or the clock moved steps backward), there is a random clock sequence component placed into the UUID as a "catch-all" for uniqueness.

Version 3 and version 5 UUIDs are guaranteed to be inherently globally unique if the combination of namespace and name used to generate them is unique.

Version 4 UUIDs are not guaranteed to be globally unique, because they are generated out of locally gathered pseudo-random numbers only. Nevertheless there is still a high likelihood of uniqueness over space and time and that they are computationally difficult to guess.
There is a special \texttt{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.

\section*{APPLICATION PROGRAMMING INTERFACE}

The ISO-C Application Programming Interface (API) of \texttt{B<OSsp uuid>} consists of the following components.

\subsection*{CONSTANTS}

The following constants are provided:

\begin{itemize}
  \item \texttt{B<UUID\_VERSION>}
  The hexadecimal encoded \texttt{B<OSsp uuid>} version. This allows compile-time checking of the \texttt{B<OSsp uuid>} version. For run-time checking use \texttt{B<uuid\_version>()} instead.

  The hexadecimal encoding for a version "$I<v>.$I<r>$I<t>$I<l>" is calculated with the \texttt{B<GNU shtool> B<version>} command and is (in Perl-style for concise description) "sprintf('0x%x%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 \texttt{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 (\texttt{B<UUID\_LEN\_STR>}) and the lengths of the single integer value representation (\texttt{B<UUID\_LEN\_SIV>}) does \texttt{I<not>} include the necessary \texttt{C<NUL>} termination character.

  \item \texttt{B<UUID\_MAKE\_V1>, B<UUID\_MAKE\_V3>, B<UUID\_MAKE\_V4>, B<UUID\_MAKE\_V5>, B<UUID\_MAKE\_MC>}
  The \texttt{I<mode>} bits for use with \texttt{B<uuid\_make>()}. The \texttt{B<UUID\_MAKE\_V1>\texttt{I<N>}} specify which UUID version to generate. The \texttt{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 \texttt{B<UUID\_RC\_OK>, B<UUID\_RC\_ARG>, B<UUID\_RC\_MEM>, B<UUID\_RC\_SYS>, B<UUID\_RC\_INT>, B<UUID\_RC\_IMP>}
\end{itemize}
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.

=item B<UUID_FMT_BIN>, B<UUID_FMT_STR>, B<UUID_FMT_SIV>, B<UUID_FMT_TXT>

The I<fmt> formats for use with B<uuid_import>() and B<uuid_export>(). The B<UUID_FMT_BIN> indicates the UUID binary representation (of length B<UUID_LEN_BIN>), the B<UUID_FMT_STR> indicates the UUID string representation (of length B<UUID_LEN_STR>), the B<UUID_FMT_SIV> indicates the UUID single integer value representation (of maximum length B<UUID_LEN_SIV>) and the B<UUID_FMT_TXT> indicates the textual description (of arbitrary length) of a UUID.

=back

=head2 FUNCTIONS

The following functions are provided:

=over 4

=item uuid_rc_t B<uuid_create>(uuid_t **I<uuid>);
Create a new UUID object and store a pointer to it in C<*>I<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 I<Nil> UUID.

=item uuid_rc_t B<uuid_destroy>(uuid_t *I<uuid>);
Destroy UUID object I<uuid>.

=item uuid_rc_t B<uuid_clone>(const uuid_t *I<uuid>, uuid_t **I<uuid_clone>);
Clone UUID object I<uuid> and store new UUID object in I<uuid_clone>.

=item uuid_rc_t B<uuid_isnil>(const uuid_t *I<uuid>, int *I<result>);
Checks whether the UUID in I<uuid> is the I<Nil> UUID. If this is the case, it returns I<true> in C<*>I<result>. Else it returns I<false> in C<*>I<result>.

=item uuid_rc_t B<uuid_compare>(const uuid_t *I<uuid>, const uuid_t *I<uuid2>, int *I<result>);
Compares the order of the two UUIDs in I<uuid1> and I<uuid2> and returns the result in C<*>I<result>: C<-1> if I<uuid1> is
smaller than I<uuid2>, C<0> if I<uuid1> is equal to I<uuid2> and C<+1> if I<uuid1> is greater than I<uuid2>.

=item uuid_rc_t B<uuid_import>(uuid_t *I<uuid>, uuid_fmt_t I<fmt>, const void *I<data_ptr>, size_t I<data_len>);

Imports a UUID I<uuid> from an external representation of format I<fmt>. The data is read from the buffer at I<data_ptr> which contains at least I<data_len> bytes.

The format of the external representation is specified by I<fmt> and the minimum expected length in I<data_len> depends on it. Valid values for I<fmt> are B<UUID_FMT_BIN>, B<UUID_FMT_STR> and B<UUID_FMT_SIV>.

=item uuid_rc_t B<uuid_export>(const uuid_t *I<uuid>, uuid_fmt_t I<fmt>, void *I<data_ptr>, size_t *I<data_len>);

Exports a UUID I<uuid> into an external representation of format I<fmt>. Valid values for I<fmt> are B<UUID_FMT_BIN>, B<UUID_FMT_STR>, B<UUID_FMT_SIV> and B<UUID_FMT_TXT>.

The data is written to the buffer whose location is obtained by dereferencing I<data_ptr> after a "cast" to the appropriate pointer-to-pointer type. Hence the generic pointer argument I<data_ptr> is expected to be a pointer to a "pointer of a particular type", i.e., it has to be of type "C<unsigned char **>" for B<UUID_FMT_BIN> and "C<char **>" for B<UUID_FMT_STR>, B<UUID_FMT_SIV> and B<UUID_FMT_TXT>.

The buffer has to be room for at least C<*I<data_len>> bytes. If the value of the pointer after "casting" and dereferencing I<data_ptr> is C<NULL>, I<data_len> is ignored as input and a new buffer is allocated and returned in the pointer after "casting" and dereferencing I<data_ptr> (the caller has to free(3) it later on).

If I<data_len> is not C<NULL>, the number of available bytes in the buffer has to be provided in C<*I<data_len>> and the number of actually written bytes are returned in C<*I<data_len>> again. The minimum required buffer length depends on the external representation as specified by I<fmt> and is at least B<UUID_LEN_BIN> for B<UUID_FMT_BIN>, B<UUID_LEN_STR> for B<UUID_FMT_STR> and B<UUID_LEN_SIV> for B<UUID_FMT_SIV>. For B<UUID_FMT_TXT> a buffer of unspecified length is required and hence it is recommended to allow B< OSSP uuid> to allocate the buffer as necessary.

=item uuid_rc_t B<uuid_load>(uuid_t *I<uuid>, const char *I<name>);

Loads a pre-defined UUID value into the UUID object I<uuid>. The following I<name> arguments are currently known:
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<uid> 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.

=head1 EXAMPLE

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;
}

=head1 SEE ALSO

The following are references to B <UUID> documentation and specifications:
=over 4

=item

B<A Universally Unique IDentifier (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
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

=head1 HISTORY

B<OSSP uuid> was implemented in January 2004 by Ralf S. Engelschall<br><lt>rse@engelschall.comE<gt>. 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.

=head1 SEE ALSO

uuid(1), uuid-config(1), OSSP::uuid(3).

=cut

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.pc.in: pkg-config(1) specification
##
## prefix=@prefix@
exec_prefix=@prefix@
#include=include
libdir=lib

Name: OSSP uuid
Description: Universally Unique Identifier (UUID) Library
Version: @UUID_VERSION_RAW@
URL: http://www.ossp.org/pkg/lib/uuid/
Cflags: -I@prefix@
Libs: -L@libdir@ -luuid
Libs.private: @LIBS@

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 **
 ** uuid_md5.c: MD5 API implementation
 */
*/

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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.
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.

=head2 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 B<uuid_clone>.

=item void B<uuid::load>(const char * _name);

Regular method corresponding to the C API function B<uuid_load>.

=item void B<uuid::make>(unsigned int _mode, ...);

Regular method corresponding to the C API function B<uuid_make>.

=item int B<uuid::isnil>(void);

Regular method corresponding to the C API function B<uuid_isnil>.

=item int B<uuid::compare>(const uuid & _obj);

Regular method corresponding to the C API function B<uuid_compare>.

=item int B<uuid::operator==>(const uuid & _obj);

The comparison operator corresponding to B<uuid_compare> usage for equality.

=item int B<uuid::operator!=(const uuid & _obj);

The comparison operator corresponding to B<uuid_compare> usage for inequality.

=item int B<uuid::operatorE<lt>>(const uuid & _obj);

The comparison operator corresponding to B<uuid_compare> usage for less-than.

=item int B<uuid::operatorE<lt>=>(const uuid & _obj);

The comparison operator corresponding to B<uuid_compare> usage for less-than-or-equal.

=item int B<uuid::operatorE<gt>>(const uuid & _obj);

The comparison operator corresponding to B<uuid_compare> usage for greater-than.

=item int B<uuid::operatorE<gt>=>(const uuid & _obj);

The comparison operator corresponding to B<uuid_compare> usage for greater-than-or-equal.
Regular method corresponding to the C API function B<uuid_import> for binary representation usage.

Regular method corresponding to the C API function B<uuid_import> for string representation usage.

Regular method corresponding to the C API function B<uuid_export> for binary representation usage.

Regular method corresponding to the C API function B<uuid_export> for string representation usage.

Regular method corresponding to the C API function B<uuid_export> for single integer value representation usage.

Regular method corresponding to the C API function B<uuid_export> for textual summary representation usage.

Regular method corresponding to the C API function B<uuid_version>.

The standard constructor for B<uuid_error_t> class.

The standard constructor for B<uuid_error_t> class with return code initialization.

The standard destructor for B<uuid_error_t> class.

Regular method for setting the return code.

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

=head1 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;
}

=head1 SEE ALSO

uuid(3).

cut

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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###
### OSSP uuid - Universally Unique Identifier
## OSSP uuid - Universally Unique Identifier Command-Line Tool

### VERSION

OSSP uuid UUID_VERSION_STR

### SYNOPSIS

```
uuid [-v I<version>] [-m] [-n I<count>] [-l] [-F I<format>] [-o I<filename>] [I<namespace> I<name>]
```
B<uuid>
B<-d>
[B<-r>]
[B<-o> I<filename>]
I<uuid>

=head1 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 UUIIDs 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).

=head1 OPTIONS

=over 3

=item B<-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:X500>"). The I<name> is a string of arbitrary length.

=item B<-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.

=item B<-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>.
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.

=head1 EXAMPLES

# 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: 2349374037528578887923094374772111141
    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: 378986285607910888100818383505376205
    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)
SEE ALSO

uuid(3), OSSP::uuid(3).

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**
** uuid_sha1.c: SHA-1 API implementation
*/

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uuid.c: PHP/Zend API (language: C)

*/

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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:

```
=over 4

=item C<use OSSP::uuid;>

=item B<tie>C< my $uuid, 'OSSP::uuid::tie', $mode, ...;>

=item C<$uuid = [ $mode, ... ];>

=item C<print "UUID=$uuid\n";>
```
The OO-style API is a wrapper around the C-style API and intended for high-level regular programming.

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>.

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.
Additionally, the following constants are exported for use in $rc, $mode, $fmt and $ver:

<UUID_VERSION>,
<UUID_LEN_BIN>,
<UUID_LEN_STR>,
<UUID_RC_OK>,
<UUID_RC_ARG>,
<UUID_RC_MEM>,
<UUID_RC_SYS>,
<UUID_RC_INT>,
<UUID_RC_IMP>,
<UUID_MAKE_V1>,
<UUID_MAKE_V3>,
<UUID_MAKE_V4>,
<UUID_MAKE_V5>,
<UUID_MAKE_MC>,
<UUID_FMT_BIN>,
<UUID_FMT_STR>,
<UUID_FMT_SIV>,
<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.

```perl
# 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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* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/uuid.ac

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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;
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 CAST (CSTRING AS uuid)
--     WITH FUNCTION uuid_in(CSTRING) AS ASSIGNMENT;
--
-- CREATE CAST (uuid AS CSTRING)
--     WITH FUNCTION uuid_out(uuid) AS ASSIGNMENT;

--
-- the UUID constructor function
--

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';

--
-- the UUID operators
--

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_gt );

CREATE OPERATOR > ( leftarg = uuid, rightarg = uuid, commutator = <, negator = <=, procedure = uuid_gt );

CREATE OPERATOR <= ( leftarg = uuid, rightarg = uuid, commutator = >, negator = >=, procedure = uuid_ge );
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;
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 ** uuid_mac.h: Media Access Control (MAC) resolver API definition
 */

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** uuid_cli.c: command line tool
*/

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uuid_dce.c: DCE 1.1 compatibility API implementation

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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_dce.c

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uuid_md5.h: MD5 API definition

Found in path(s):
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uuid.ts: MD5 API definition

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* /opt/cola/permits/1129089660_1612173937.92/0/ossp-uuid-1-6-2-orig-1-tar-gz/uuid-1.6.2/perl/uuid_compat.pm
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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 "${PHP_UUID}" != "no"; then
    PHP_NEW_EXTENSION(uuid, uuid.c, $ext_shared)
    AC_DEFINE(HAVE_UUID, 1, [Have OSSP uuid library])
    PHP_ADD_LIBPATH([..], )


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** uuid_ac.c: auto-configuration  
*/

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 **
 ** uuid_bm.c: bitmask API implementation
 */

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** uuid++.hh: library C++ API definition
*/

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** uuid_mac.c: Media Access Control (MAC) resolver implementation
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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## uuid_compat.pod: Data::UUID Backward Compatibility Perl API (Perl/POD part)
##

=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>.

=head1 HISTORY

The backward compatibility Perl binding B<Data::UUID> for B<OSSP uuid> was originally implemented in 2004 by Piotr Roszatycki E<dexter@debian.orgE<gt>. It was later cleaned up and speed optimized in December 2005 by David Wheeler E<david@justatheory.comE<gt>.

=cut

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** uuid_time.h: Time Management API 
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1.657 microsoft-identitymodel-tokens-saml

4.5.50709

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

@item
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This is the Debian prepackaged version of the GNU gettext utilities.
GNU gettext was written by Ulrich Drepper <drepper@gnu.org>.
emacs po-mode was written by Francois Pinard <pinard@iro.umontreal.ca>.

This package was first created by Erick Branderhorst <branderh@debian.org>, and is currently maintained by Santiago Vila <sanvila@debian.org>.
This release has been built using the sources from:

http://ftp.gnu.org/pub/gnu/gettext/gettext-0.19.7.tar.xz

The changes were fairly minimal, and consisted solely of adding various debian/* files to the distribution.

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1.663 curl 7.47.0 1ubuntu2.16

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1.668 pycparser 2.20
1.668.1 Available under license:

pycparser -- A C parser in Python

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1.670 jackson 2.9.8
1.670.1 Available under license :

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1.673 libxcursor 1.1.14-1ubuntu0.16.04.2

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1.677 atk 2.18.0 1

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
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1.682 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>
 * \</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

1.683 byte-buddy-agent 1.6.14

1.684 linux-libc-dev 4.4.0-79.100
1.684.1 Available under license:
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Contributors to btv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.uku.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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<signature of Ty Coon>, 1 April 1990
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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.
*
Linux driver for the IDT77201 NICStAR PCI ATM controller.

PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
see init_nicstar() for PHY initialization to change this. This driver
expects the Linux ATM stack to support scatter-gather lists
(skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

Implementing minimal-copy of received data:

IDT always receives data into a small buffer, then large buffers
as needed. This means that data must always be copied to create
the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
Fix is simple: make large buffers large enough to hold entire
SDU, and leave <small_buffer_data> bytes empty at the start. Then
copy small buffer contents to head of large buffer.

Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:
1) skb->destructor / skb->atm.recycle_buffer
   combined, allow nicstar_free_rx_skb to be called to
   recycle large data buffers
2) skb_clone of received buffers

See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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M. Welsh, 6 July 1996

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for his work on the initial Linux DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)
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Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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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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with the Library, with the complete machine-readable “work that
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The End

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1.696 tcp-dump 3.5.6

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.. br
.. if t .. Sp
.. ne 5
.. PP
\B\S1\R
.. 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 \S1
...
.. 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. | will give a
.. real vertical bar. \(C+\) will give a nicer C++. Capital omega is used to
.. do unbreakable dashes and therefore won't be available. \(C-\) and \(C\)
.. expand to " in nroff, nothing in troff, for use with C<>
.. tr \(*W-\)\(bv\)\(Tr\)
.. ds C+ C\(-\).1v\h'-.1p's-2+\h'-.1p'+\s0v'.1v\h'-.1p'
.. ie n \{
.. ds -- \(*W-
.. ds PI pi
.. if \(\n(H=4u)&(1m=24u) .. ds -- \(*W\h'-.12u\)(*W\h'-.12u\)\" diablo 10 pitch
.. if \(\n(H=4u)&(1m=20u) .. ds -- \(*W\h'-.12u\)(*W\h'-.8u\)\" diablo 12 pitch
.. ds L" 
.. ds R" "
.. ds C" "

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  ds #V .8m
  ds #F .3m
  ds [#] \f1
  ds [#] \fP
}

If T
  ds #H ((1u-(\\n(.fu%2u))*1.13m)
  ds #V .6m
  ds #F 0
  ds [#] \&
  ds [#] \&
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1.702 libusb 1.0.20-1

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

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

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

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

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

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

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

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

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

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.
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.

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.

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

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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
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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.

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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.)

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

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

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jar/com/ctc/wstx/dtd/ContentSpec.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/dtd/DFAValidator.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/dtd/StructValidator.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/SimpleOutputElement.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/SAXProperty.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/WstxSAXParser.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/WrappedSaxException.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/SAXFeature.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/StreamScanner.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/EncodingXmlWriter.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/BaseStreamWriter.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/XmlWriter.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDValidator.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/MinimalDTDReader.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDTypingNonValidator.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/InputElementStack.java
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1.706 libvorbis 1.3.5 3

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1.708 jsp 2.3.FR

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1.709 ptyprocess 0.5 1

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1.710 patch 2.7.5 1
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This is Debian's prepackaged version of patch, Larry Wall's program that allows you to apply diffs to a file automagically.

The current maintainer for this package is Laszlo Boszormenyi (GCS) <gcs@debian.org>.

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<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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1.711 mbed-tls 1.2.8

1.711.1 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>
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 6906

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)\='Debug|x64'">
<ClCompile>
<PrecompiledHeader>
</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>
<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;%{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>
<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
</Link>
<ProjectReference>
<LinkLibraryDependencies>false</LinkLibraryDependencies>
</ProjectReference>
</ItemDefinitionGroup>
Autogenerated content from the provided code snippet.
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
  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:
        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:
        5e:1c:81:60:46:3e:b5:b3:3d:2f:a6:de:47:1c:be:
        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
a7:4a:bd:0f

-----BEGIN CERTIFICATE-----
MIIDOTCCaiGgAwIBAgIBDTANBgkqhkiG9w0BAQUFADA7MQswCQYDVQQGEwJOTDER
MA8GA1UEChMIUG9sYXJTU0wxGTAXBgNVBAMTEFBvbGFyU1NMIFRlc3QgQ0EwHhcN
MTIwMjA3MTYwNjMwMjIwMjA3MTYwNjMwMjIwMjA3MTQwMQswCQYDVQQGEwJOTDERMA8G
A1UEChMIUG9sYXJTU0wxGTAXBgNVBAMTEFBvbGFyU1NMIFRlc3QgQ0EwHhcN

Signature Algorithm: sha1WithRSAEncryption
<UseDebugLibraries>false</UseDebugLibraries>
<WholeProgramOptimization>true</WholeProgramOptimization>
<CharacterSet>Unicode</CharacterSet>

</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)"" 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 Label="PropertySheets" Condition=""$(Configuration)|$(Platform)"" Label="LocalAppDataPlatform">
</ImportGroup>

<ImportGroup Condition=""$(Configuration)|$(Platform)="Debug|Win32"" Label="LocalAppDataPlatform">
</ImportGroup>

<ImportGroup Condition=""$(Configuration)|$(Platform)="Debug|x64"" Label="LocalAppDataPlatform">
</ImportGroup>

<ImportGroup Condition=""$(Configuration)|$(Platform)="Release|Win32"" Label="LocalAppDataPlatform">
</ImportGroup>

<ImportGroup Condition=""$(Configuration)|$(Platform)="Release|x64"" Label="LocalAppDataPlatform">
</ImportGroup>

<PropertyGroup Label="UserMacros" />

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Debug|Win32""
  LinkIncremental=true
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Debug|x64""
  LinkIncremental=true
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Release|Win32""
  LinkIncremental=false
</PropertyGroup>

<PropertyGroup Condition=""$(Configuration)|$(Platform)="Release|x64""
  LinkIncremental=false
</PropertyGroup>

<ItemDefinitionGroup Condition=""$(Configuration)|$(Platform)="Debug|Win32"">
  <ClCompile>
    <PrecompiledHeader/>
  </ClCompile>
</ItemDefinitionGroup>
<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>
</PrecompiledHeader>
<Optimization>MaxSpeed</Optimization>
<FunctionLevelLinking>true</FunctionLevelLinking>
<IntrinsicFunctions>true</IntrinsicFunctions>
<PreprocessorDefinitions>WIN64;NDEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
</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" />
</Project>

-----BEGIN RSA PRIVATE KEY-----
Proc-Type: 4,ENCRYPTED
DEK-Info: DES-CBC,F87FE1C0FB9B3E77
1Nb0YRXs5kBWeXy93eCXYidDpR3pbfsgGWIIgXVCVE4/ZXgEt14A23YndZeI5OSxvGJWhqZ+VuiRsxeKJajo+xf4bnKLArvshhZUKCEVsCP1d2d1xfgijsnyr8tqNiJE0F6
7Nimjcrpw/udCk2RBYshN9kiPBbnA+XUdOHfEnbdkgpDsS5DGjgq7H1kZBzUHbTQa8
Xv6ta3kIBGiqKDh12H9UJZMwpQVUJ+hQcqNehsPmt0V4kp0S3PZMbYVKeDo
v9CHHqQy/nIHq7ZAs92HN4/OT/5kw4J9qQ7e86FX2yh39Lyz8u7PXLaVgM
pwOiFb+zvegYt5aCXyM1nBUu9NFPDQNDytyjXOsbWL0hEr1RzgK67f5QYxwGgC
St4moIn7J5BifViNdp7j/RXCoCmda3Zy5PiRw83ySc1zgDdTNpm/70j8pGSxEn
## Example OpenSSL configuration file

```
[ 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
```

---END RSA PRIVATE KEY-----
[ 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

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:


X509v3 Authority Key Identifier:
Signature Algorithm: sha224WithRSAEncryption
9d:1f:0b:ff:0b:ff:fe:ee:7:7:5e:1b:20:b7:7e:5e:19:5e:73:
61:9b:a5:6d:-----BEGIN CERTIFICATE-----
MIIDQgCCAgAwIBAgIBDAvBgkqhkiG9w0BAQsFADA7MQswCQYDVQQGEwJOTDERMA8GA1UEChQIUG9sYXJTU0wxGTAXBgNVBAMTFRlc3QgQ0EwHhcN
MTEwMjEyMTQ0NDA3WjAdMQswCQYDVQQGEwJOTDERMA8GA1UEChQIUG9sYXJTU0wxHSAbBgNVBAMTEFBvbGFyU1NMIENlcnQgU0hBMjI0MIIb
IjAAMB0GA1UdDgQWBBR95Jxr5vlxfUbSej2tax39wqp4TDAfBgNVHSMEGDAWgBS0WuSls97SUva51aaVD+s+vMf9/zANBgkqhkiG9w0BAQ4F
AAOCQAQEAuJsK0bTRpM4FOUJ6O50ie/ZdXijZGqoQyf8rvu/nTR93SHoQsv12yk15JFz6GhjhoC2fJ5rsBo7k9YwuxjBjB2rCari2k7errx1up6Q1IP0lHp7TCa1
V2WxEOOIT1KNQhtMy4zTTGx4XgIj/hvHuXTIloeArvRG8mkDPvH8UFZl5eIf
gRsLT/0fqNc7ndlpv2pifQ/HzyL9YXKpwFII/1/WhUjPmCti+i+m37VrtDkJpFlFkPYuoFxWaiEKK0DIAO6l3faVtUdcaYeniwez2/Zf0Ms7VNWvbVBW382WbNWRD7Gn9Le
nR8L9yv/ud3sEgt/xpE7riYzulYg==-----END CERTIFICATE-----
Certificate:
Data:
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:


X509v3 Authority Key Identifier:


Signature Algorithm: md4WithRSAEncryption


-----BEGIN CERTIFICATE-----
<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>
        <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>
        <LinkLibraryDependencies>false</LinkLibraryDependencies>
    </ProjectReference>
</ItemDefinitionGroup>
<ItemDefinitionGroup Condition="$(Configuration)|$(Platform) == 'Debug|x64'">
    <ClCompile>
        <PrecompiledHeader>
        </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>
        <LinkLibraryDependencies>false</LinkLibraryDependencies>
    </ProjectReference>
</ItemDefinitionGroup>
<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)=='Release|Win32'">
<ClCompile>
<WarningLevel>Level3</WarningLevel>
</ClCompile>

<Link>
<SubSystem>Console</SubSystem>
</Link>

</ItemDefinitionGroup>

<ItemDefinitionGroup Condition=""$(Configuration)|$(Platform)=='Release|x64'">
<ClCompile>
<WarningLevel>Level3</WarningLevel>
</ClCompile>

<Link>
<SubSystem>Console</SubSystem>
</Link>

</ItemDefinitionGroup>

<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
gcm_encrypt_and_tag:"a7d4456b8e16b82283b677bd8c4b1f56dc7f153b5cfa746f":"081de4a3f71f5d6fd7f801ff6c667f7d":"128:90c2729c5ba04f8f5c73726c910640aa":0

GCM NIST Validation (AES-192,128,0,0,128) #2
gcm_encrypt_and_tag:"5779b60b536b096c9348cd8dabf3451280791e319b7198c2":"62f8e195bc79957ca8ce99a88ded1a02":"699d71bb63c668b533c357662f861513":0

GCM NIST Validation (AES-192,128,0,0,120) #0
gcm_encrypt_and_tag:"966ecfd078f695c8ad84edede2fb96f8b9848fa721dd3b50346":"4a7b709d45745d94c5433b01fe9d57fb":"4a9bd213402629a5f6e47165006e0":0

GCM NIST Validation (AES-192,128,0,0,120) #1
gcm_encrypt_and_tag:"cc69ed684af2c2bd2b3e2d2f9f9af98acf8071a686c31e8e3":"0bd4197e5ab294ab7a1e6ec75db2ac0":"6632b618b4caba963dd671fd53d2075":0

GCM NIST Validation (AES-192,128,0,0,112) #0
gcm_encrypt_and_tag:"5e0c706a1fd480050ef0d0ed91b4d9fd0028c500dcb28ca73":"595716e15498454577d3581e94f5c77e":"8b10eacb1f127f4c58cb8c3516c":0

GCM NIST Validation (AES-192,128,0,0,112) #1
gcm_encrypt_and_tag:"ae8e125507ea16d5282fe8bac42d3cb4908b717f345e6a38":"0a7f64ed8cd8052fcd5b92e200bc2d":"467a2e0ba1d24414f5f8020b8a4":0

GCM NIST Validation (AES-192,128,0,0,112) #2
gcm_encrypt_and_tag:"02176a5a5d8cb8f5ccee3f66a22181765ce730751c135198":"c19edf52f5ebbcf89ab1907b9ebc7f7":"6525be5856d6f29105777e31457":0

GCM NIST Validation (AES-192,128,0,0,104) #0
gcm_encrypt_and_tag:"443ad6bce3a33551737d7afe8c4d77a97be8eac19bc0a05":"b0efad326886eaaeab750dfcf2c104abe":"ab9f7923a3b9228cb9ed7f907":0

GCM NIST Validation (AES-192,128,0,0,104) #1
gcm_encrypt_and_tag:"39994c2520a6196cc3f3e8c6e4833286ce37399e0379563b":"d6bf9e40266d95191d70739e932cd8572":"b29acaf5add6b379315535375":0

GCM NIST Validation (AES-192,128,0,0,104,0,96) #0
gcm_encrypt_and_tag:"1f27d05411a264b37ee821a0777773750cc79d28594f506":"6739d43092620f44b57e65035e14565":"25e04d34a3660704ee4bb82962":0

GCM NIST Validation (AES-192,128,0,0,104,0,96) #1
gcm_encrypt_and_tag:"097d15f4992a6534e43944fd346da65ac1f0f122918944":"32a64e826b500d7e85f4c42a7847e19":"96:da8f3e0a6f156ee260a34fd":0

GCM NIST Validation (AES-192,128,0,0,96) #1
gcm_encrypt_and_tag:"27504fc47a9e9a85eaded3782cb5b088359ea1e0abbbf2730":"c55c8dc3d6d2970c81659f2f87bf849d":":":"113e637538de291c2e463acbf":0

GCM NIST Validation (AES-192,128,0,0,96) #2
gcm_encrypt_and_tag:"d5fc6f773de737678e5c64c37459c5eee3d27f7e337c346c":":"2691432d3935d4ea8c8f7c17bef3558":":":"c0a76d66f2430106ca54928":0

GCM NIST Validation (AES-192,128,0,0,64) #0
gcm_encrypt_and_tag:"f28292e2c54119511a67db0d23174333aeccabf5dd1f1":":"cf9331a1bb38512f3aeedd1a33eb8":":":"8e14b869a95eb12":0

GCM NIST Validation (AES-192,128,0,0,64) #1
gcm_encrypt_and_tag:"2042f9244079736291ba7fe1f030cba96762a97ce361dc14":":"aadfa619baaf2b1b5c7388b65d632ba8b2":":":"64a6f52f25aaeac55":0

GCM NIST Validation (AES-192,128,0,0,64) #2
gcm_encrypt_and_tag:"f28292e2c54119511a67db0d23174333aeccabf5dd1f1":":"cf9331a1bb38512f3aeedd1a33eb8":":":"8e14b869a95eb12":0

GCM NIST Validation (AES-192,128,0,0,32) #0
gcm_encrypt_and_tag:"b512f84c91d53b3a50e9b76b0b27da33cb49349d89413":":"64a49909f5bdc61d850e43fbeb1fb454f":":":"32":"22dbf709":0

GCM NIST Validation (AES-192,128,0,0,32) #1
gcm_encrypt_and_tag:"3ac7a2b2ad7e8e397d66be6d7c67671f19cd39ad65490f1712":":"d152359d765f41dd9c0af76d6f1fb454f":":":"32":"a6e430d":0

GCM NIST Validation (AES-192,128,0,0,32) #2
gcm_encrypt_and_tag:"f9c2de73e3747b7e318413a32892d4fd070de98821588bc82":":"63410c836a3b637b1973cb7f1f7a6d8":":":"32":"49e514ac":0

GCM NIST Validation (AES-192,128,0,1024,128) #0
gcm_encrypt_and_tag:"66edeb2c332276784a696b6b1371761210bace9f1d6a36d6a4c":":"647f41b60c6a5790866ba8854d0434945c":":"da26eebcd027bc67a7b54b87d3b7227f056dd9c085faebcfb59ec665a257c6dd68d2c1e51aad5e6188e02a56f70aaac49ba489802247ca327de57ae3ac8a7e72ca7ed7d8b20341a2133b30cd0027216fcd94cf43ec8a4e104145b597924ab557f7777db3ff2b8e9c1d93570373d0fe02a2be6b91e27554edbf7bf751cc41":":"128":"420b32c02d61a0b11a7605a84f8e26":0

GCM NIST Validation (AES-192,128,0,1024,128) #1
gcm_encrypt_and_tag:"26b0d4827582b04318eefebac2a2298ec3ce614f39a35":":"99f34494cc5834841e7ab595b92a7e6e10":":edfc2aa8ed91c9cfe0117fc9e2d1bfe8437cfe3f65a2b6cabad4259686cd7ade9c7453623967a30ffbd52b30fc205208bb346f7c0f3847bf5f3b749ad4971ed17cced0200a89aef4aedaaf1f3a4bf290a779e141be0d9dd3677f727e5e793e0f85f52ec0b7a266b9a02a2c700b63d8c4340a0569510285e98b350acdbbf77379d":":"128":"091c38f2b48460eaf181ab58634a39":0

GCM NIST Validation (AES-192,128,0,1024,128) #2
gcm_encrypt_and_tag:"82c8197e6641d08326392b1d7691fbac79618b25f6d45b":":":"69e1a3e5eed54bdec49146e3e3ad2596e":":d0fc6bf4d764f6efc0ff3b52e8108e61b67a1386f1a13c1761941cc9a286ead15e78474cd2a65ae9475d70d9c84
GCM NIST Validation (AES-192,128,0,1024,120) #0
gcm_encrypt_and_tag: "1a349ba960b2c8f49b7e5314911ba8de358f2e74ceddf126": "f5998a62ec507c5fe5b280ff9c57a6c26": "784454ceecce2f62d2ecf2589fd42e8545bbed3aecc6ae9f34ae9aea93dca95d58629002a4b91e9bf6d12e1f30fa844977b3c2700645281db5de381adbc3d4a84346a99f34889bd464c75b1956e21aa9f78684af55d7fd0de6da07e856d9b7911c0a5e9e37881092f6040a9ae9d8877571423c9c76fc6f25db0e5b5d7377656ce4da": "1d47eab0a3719fa53e552b9e5a85bdd": 0

GCM NIST Validation (AES-192,128,0,1024,120) #1
gcm_encrypt_and_tag: "019af03d323427f916e329b6843161e566aa859402cb07ff": "c5fd96765fc6f651e23ac6d206744a0": "19808af3403051a52b6652df03b6637d90a471bc242c4363ab6ba69913eaad16847665097378731b99697902871992335ce77351ce42b15453b4171236a166ae6373738c0d736b3a8fb38c3cf2922e561e456862fb2c7161da3b89526d9e222351dbb04ced4e48680f26d70fe57d77e28a7b199be1bbbb7b67632dddee3d3": "fd36afe4f5571fa66e5e65b77381": 0

GCM NIST Validation (AES-192,128,0,1024,120) #2
gcm_encrypt_and_tag: "fab39ad2946ba2a343d76b1c1cc19397ee7ae3cd7b6ea187bc": "247bc711464899dd3495c3edee8a071e76": "c026faa54ad0709741a5f6bed79061a02045b6c999oa2e2d7883b78ce6096362c8a5dbb0ac076e6f68b121752a9bbee04fa4b2b78f3357025930b09488369b3fa08a2107bb6c4b7a1f1c2d6038d647ada5852d2c539300a4779295412b202e3cb977a7b94c24cdd2d9819a2035f88257db8e5b31b3ec89f5062": "65e1aad214f49881a067db8372ab6d": 0

GCM NIST Validation (AES-192,128,0,1024,112) #0
gcm_encrypt_and_tag: "57b5269772ae2d6354410a69dc3c5f28b31e66177b8c": "0d96720526491d196eca66457e3c9e71": "cbdbd3cb73aed4297f9aaba76d8dca4d4c8ef11b0f521df7170f07461c78582528742b2ff8d05a3943ecdcc84ffce03969b79ebddca053c6c99086c1cf806d9d05347d45e556e9a55ecc3a9f74e8ed5db19ed8b452eb67381ad0c695f656dd3b139ad3f378fecz5eb6ecfa358f5a5bced1550f1d5f325f159fecd007": "f0c49960e6f6b3eddbb500febd98": 0

GCM NIST Validation (AES-192,128,0,1024,112) #1
gcm_encrypt_and_tag: "57b5269772ae2d6354410a69dc3c5f28b31e66177b8c": "0d96720526491d196eca66457e3c9e71": "cbdbd3cb73aed4297f9aaba76d8dca4d4c8ef11b0f521df7170f07461c78582528742b2ff8d05a3943ecdcc84ffce03969b79ebddca053c6c99086c1cf806d9d05347d45e556e9a55ecc3a9f74e8ed5db19ed8b452eb67381ad0c695f656dd3b139ad3f378fecz5eb6ecfa358f5a5bced1550f1d5f325f159fecd007": "f0c49960e6f6b3eddbb500febd98": 0

GCM NIST Validation (AES-192,128,0,1024,112) #2
gcm_encrypt_and_tag: "7b69f9ed06271107e11f0d1e6ded0faaf0e2d2ac5bdc46f": "50e65a3384f856c808e1e331b46a6d": "a7c4e1e56f4b9fcca08d3791560e4b6c7ce4ba010ade05356861c5c466c3f60dc6a8e329f184c0463b0f06cd0053e615fd7caeb2b353b08a6da1f8a23ebdd1f65242d2eaed70d47de7es54612cc9598d7e107eb64b4b103cd8ed9301cafe8b04b020f0c156025d72b73d6e105ed23123553d53899ae73a549747d7f70f": "12": "d7ff9b7d87e6defe77981948e0b13e1a": 0

GCM NIST Validation (AES-192,128,0,1024,104) #0
gcm_encrypt_and_tag: "1b268de4ff644ca4361f8014656d5d4decbe9cede8605c": "4009bb00afad026cbad117c60"
GCM NIST Validation (AES-192,128,0,1024,32) #0

GCM NIST Validation (AES-192,128,0,1024,32) #1

GCM NIST Validation (AES-192,128,1024,0,128) #0

GCM NIST Validation (AES-192,128,1024,0,128) #1

GCM NIST Validation (AES-192,128,1024,0,128) #2
GCM NIST Validation (AES-128, 256, 192, 0, 96) #1

gcm_encrypt_and_tag:"fe63e247e8de8388a197a9e9373e34cf05af0b282533d3445015":"17c5d748b8596901e97df660ca94f9707ceb7679af88f600ace4245f50beb67744edc887722c265d63653d9838d3fa0d6d3f094668f3478c9e2708501ed1b123079b2189576bce79398315493b4e9a64ca19d9f734c78e755ecb98836f8aa3e1be583ace75288edf0ad280 384136963eb2d2a4ee7b2f69597737a1ca8e81035675c287870f2f8fe56ae5c4b":"c3d34e24cf13a6d29949d070a0f0e1a63c88d052556d4f68f58dc0879c16eadd71b702682d0a4e37bdaa93a9b62e9a32fb72959b0fa930ca7a34aaee93786cf9850e44deaa9498b8b0300caeae26e2b26a15abfe47cc6ca15f5f591599990acacaa9d1ba2be2a20fe13005b92ce722a000228545a8e8a61b2c667a386lf3413b9::"d7a6a917a286f7d6edf1289183":0

GCM NIST Validation (AES-128, 256, 192, 0, 96) #2

gcm_encrypt_and_tag:"e739da8ae3a5e64b4d98f6f6b5bcbcd015d8109ef92518":"56daf6c0b354e84c3e3c13b7f88193124ca7e7049272beb9f3bedcb3de8e107db9d9ee53d14ace516844fe012589d9ab4ce427580f6299b20082bc4a87eb25889bed459f312dfaeaffdf318f42e153a2165dca9b9b6c10f0d1d3b12b37123a6f53f6d57b8fd0f57fd1d88083c5137524111f7aedf21af07a355e3dcf4d2166d9":"d80ac4dacb0f1441839e2068013d3ef":"9ae5107f43949050f8ca8ae6d1eb66099ccd10166f3e84e54c1bc17b30e218fe6015ac92d7a7a8b8b8905a253904c72710a86e5051867daad69c82c5cedfa72980244e19e0ab399aabbf439509504a08d8e9214d967d127190b07ed9e981b11b264dec2b8e067872f8d421b661558ceea4e929200ff8d706804e50650de799":"6a180ed4f3af9d5739e559d00":0

GCM NIST Validation (AES-128, 204, 64) #0

gcm_encrypt_and_tag:"c423ed64375d42c3a402fddad143336d26f6aba5d44b6c7ebc176":"d408209fab8f8a35":0

GCM NIST Validation (AES-128, 204, 64) #1

gcm_encrypt_and_tag:"a901805d8629d0522a64b0f50ce35135fa7e5830f6930de54a":"2a4e04101d4c822eba024dcaeda27676ca7b7a0ed652909eed93760949ae856c23e3eb624c03eb52b808892e880fa5c4363a72716106747317bbdf15387761fa2454e249a1b0d6c3e4b4d4a356ac2a2fd601a83d4fa7629113ef1a9bfc858cc0ae10cf3f34ab9eb55411efe4c082a9af3cf80f38e2b56181630238090acc":"64:408209f9b8a35":0

GCM NIST Validation (AES-128, 204, 64) #2

gcm_encrypt_and_tag:"6935fdcf340fa19f2a50244ab95a6059e2ee637e237e6b0d":"33ca2c61fa04467ad2bba2ba8144573fc0254a4e9945fae250385406ed1757ad7b70534bd6ed854f227d93ee5e7c73a314f559208e1ba5af8c1e8b5b0b7c6b3030e3ae5f0a287536f949b576418bb1d2dec405262badd9c537d3668aa97b91785176325fcbda2180e33955c8e819d05e389820d69258e993e92c8e296":"aba96774407cd60c248f7cb3b0b6":"b32c4490cb0d6093cfd7c97c0f2ba7d702216ae29a503aaf22d027279c75706c2888fc01fa9915b42a6be7a7d956971b8fc2411idd974b5c9e7b5c0a592bc7d78f43503ebea37e9c7d48d7a56be7e2df1d1cecd1f1ebe99bc7ace7106942959949e791100e23557843acf5164f3863d90f606ad83286964c4af51df29346":"64:50bd720de1b1350":0

GCM NIST Validation (AES-128, 204, 64) #2

gcm_encrypt_and_tag:"1a89a516204837bc7808ad9b26717e51cccf42591f5b8c75c1":"c72a1b8b7057224224b992cb21a7526ddf3d4127a117e61f594abbface2ca26ea48523d0113e38adbfcd6a4f8809cb60644546f7d523ca442241e8921b906d607d90e139e5861946665daba03c37ca67876586c5f048edfadb4a5b0a77cf1883d53efc770b3b0838882144991c25a233186eeaa205940f116737850e":"ab91f774407cd60c248f7cb3b0b6":"e5c0510590b919f4d06c410edfc2f8805a602ff247eb3b50881ad3eefb598ed53dd1def88460db08010e3b3effe9e9a4954f744001660f80d24daf99ac19e1e98b8671db99ede8fede1d0889bb130e1b72355fc8a2b3f334af7de9376af495c0e71aed56d680632195539b2d1df5b0f804328d0928a449731ce":"6c9f556e753328c":0
GCM NIST Validation (AES-128,128,1024,1024,32) #0
gcm_encrypt_and_tag:"d3180703e1ee93b20d1ac4de6e85f5461d75f783bcd2f4fa":"b7b350db6f0c079e6f0d0cb239f561b7e627ba2a26b8e3e7ed8b373caac1e5c5d2a4235279e4b57f18c211722d4f4ba38ca4d1d0e2570c084cadbd0e8880b35140c84f775c3c01a9b26082516d7f592337d6e0c2c34f7ae9f33793b1e552153515286396b2ecca87c2991f5525f4a2f64c3a01455031d73c1e6f:"916d72d515d3247ba488284d1133daa":"102051305c1bd7e88b2710ff8c93ce55e2e2c2b560004d1c182b52867363ac2d62fc9e82f7115d6ba6f77463805627ec8b3e9c9f9ed45d7fe996e7f73fbf3d3485ef137b7ece960fd1d60962a1696e9ec8d20be151f6333c36e8ab5e8380f2a0f3795f6515f1815d81b192bc25a42356807c1b9c02b2eb83099ff44:"d5902afed64c5747e12c67f5090efddfe01e404cbafbe9232e4b44390eff66dd839e6d800df67c06f49f76911d3f3363a31521762d6448ee02ebefde01788643449f18668fcede8a531f3b5ee0e4c3793ef3e757c59f753e41f4ec93811bd3e3d6bbbaa8e18f1dbff8db976384a6ef4505f7e4702301c73292ba7f15506":32:"22e50ed0":0

GCM NIST Validation (AES-128,128,1024,1024,32) #1
gcm_encrypt_and_tag:"02bc0a8ab5468123009b2c69aaffd0a20a1fb082b55a7ecb":"8bf32af1632a7903f00e801ee6e5c9e1047cfe021be688efc2462b21772786ab296e01fe696f4e8a602aead45e2a0a60610350cede2b61ddd3aa14c549216a467fcde18332a6482d2a1e592379340d3e1a4863ef3a902bdc30a954505259b8c837183e900ff4705f170c9f69bae2b939799e983f74707bbcbf0315c08e891f31506a05c4ed41bff6f:0:1b7f5e60a56e951213b23672d2907af8bfb9f47e81532bdf30a3d1e76351718904a4aa0a671b4eb9bda6592d9d2b34c877472c0d2df68ef85f5773c5f6db3e5772d4900d1b2675c23df14728e92daf7ebf140d61450cfc937932493146962299ab95760e4ca5edf2aadcd5c657758ba8711f404d6d3cc3eb183322:"b8df0301431839270c29e57f003883940a0df7f35add0346cc6f75e3e6ff59e18932aaec967456107b6ada7a329409493ebec09df730ceedb868cedf7978ca39322c511f183d924e386cbef1b799baa1816b03372337784307b0b6eb59235e4a4d3e3a8108999fd71a994ba7742aea1857878cecf1bf674ee565a0702bd0d3e4393cafe5742:32:"bd0be868":0

GCM NIST Validation (AES-128,128,1024,1024,32) #2
gcm_encrypt_and_tag:"7c07d5ccaadb9e39a3b5dbddaf830a7a2a175522b9e831e1d34:"04d3e6bdc5ebf696f6e84a702fdd5f76de6bc966799c0906341ec63622f29304ae19896c6736c3b3c25081f709af57d373f391f21edcb70bed9f289558b3e6ee788823275f119a2d5f773d2713690f0f65923388f1d82825794e5f793efc10eced8a53751edeb0d88963471bf50992ff2176b47967bd6d16a409525:"e4d5c5c403a03d9a073516763052bce0:"b747d7f263d0ff6119df1b53326042e4568631adce12d6715fdff39f0d8045764584ab207195688d2d41baec03101117979fdd2f97914b352398594005beb3449aa20416dfcb2671253f59b6f4d4677f57e530a343c45866b0e374651907e6ecff01283ea31b8c7d7947570c0f2a53c4e4615b0c4869440df675f15d4b5:"f5fa7fbd99dc6ec879393ca3e1e6940df0d4046914997a7a4235ed2e0e0a0460297ba109ff8c14e8fd37a9d6ce2c5c572e98bc1bff87f2f928e51974e3a73b8b3633721fb4e80de3b3ffcae2407d73bd4c07f32bf49ad0b1364003b11f8037a28239e69c3996874ba8e4ec7270bf0441d64852f3730d30e3536:32:"e0820ed4":0

GCM NIST Validation (AES-128,128,0,0,128) #0
gcm_encrypt_and_tag:"dd01d48789e7f0f7180a7385e4d1b17349303bc6e768c9f2":"944ed7743be9c370cb7ac7b79b7dece2":"128:dfa0ab3893a7870598af802008c4da8":0

GCM NIST Validation (AES-128,128,0,0,128) #1
gcm_encrypt_and_tag:"0383849ed6db3e52743aa82e8c09173b457755b88b4d6e":"c6b8518346ec52c0016997bd3b38dc795":"128:48a19925496278625e8faaadacb16":0

GCM NIST Validation (AES-128,128,0,0,128) #2
gcm_encrypt_and_tag:"936388053ee0116b3f783ae34f000d5f6e2c5d712842d46f9":"c5426b20c014e472c7b85be2
ed0f64c8":"":"":128":"4cf0f6a45f3544e3d391375c8fe176b1":0

GCM NIST Validation (AES-192,128,0,0,120) #0
gcm_encrypt_and_tag:"40dfcb3151a8dab1c0b79aa1e6a24fb5502d40e256bd4b07":":"":b8495cc54653e7ad74206153ea64c3eb":":":120:"1d3786412e0cecb383de3898ef2cffe":0

GCM NIST Validation (AES-192,128,0,0,120) #1
gcm_encrypt_and_tag:"83ce1d8db33c6134a1d48b30b0c36d5b799574dd925f38b":":"":fb9aca5b4932035c65b571d170fd5f24":":":120:"978f7f68d2648963cb49fd7459121":0

GCM NIST Validation (AES-192,128,0,0,120) #2
gcm_encrypt_and_tag:"886e646688d573c2cdec8ca229a11b394b3400408dd801503":":"":c0744685722cb87717c76fd09a721dace":":":120:"794fe4df0084c21ffe9f95e5b0382":0

GCM NIST Validation (AES-192,128,0,112) #0
gcm_encrypt_and_tag:"0bb845dc2c4c9e5a94bd3e8969300b16b4d3ad5eadb2e80a":":"":0900b3fa3cc9833d702655d285f904ed":":":112:"dc670518e150d326921bd5f43e80":0

GCM NIST Validation (AES-192,128,0,112) #1
gcm_encrypt_and_tag:"ac9faca232ab444a0774949d53a62c1cda04b132a3b07a21":":"":8cf6a81bfa21633ad95ff6c690c73751":":":112:"4cd7a6ef43ec3d41d086e6abf14c":0

GCM NIST Validation (AES-192,128,0,112) #2
gcm_encrypt_and_tag:"99f79721ef784980d03140490f760313cc8a56424affb01672":":"":c104bd8842e3fe7359c85e0e94fd4070":":":112:"3f682fc71989804ba74bdad0a97":0

GCM NIST Validation (AES-192,128,0,104) #0
gcm_encrypt_and_tag:"7ce935f56970676ab89f6d97315a33efaee76148263e95f1e":":"":1a91965c5458f4a1fde309cd42a3f4277":":":104:"ce26c6c0f447623a3ef1f657c":0

GCM NIST Validation (AES-192,128,0,104) #1
gcm_encrypt_and_tag:"30ceceabac70a9de4f4f7f41d6b9b5608cca39d07c0ded5":":"":361e5cd21c670de39b5f0b2b89437f99":":":104:"48a9621522a98b6c0ac0f3429":0

GCM NIST Validation (AES-192,128,0,104) #2
gcm_encrypt_and_tag:"4fb80c4fd026c3f68abf8c8e28e1440dfb3ba0d70295eb":":"":ee552f9b94a527d18d285d6c195ca7b2f":":":104:"5ec97630ce593e9d560136774":0

GCM NIST Validation (AES-192,128,0,96) #0
gcm_encrypt_and_tag:"c0261023e9f682789ce9ae970f7601f07551259ef1945":":"":bffe4af76db75bc4a3d42b57c73c51b6":":":96:"bf827b4526da77ab2e21908c":0

GCM NIST Validation (AES-192,128,0,96) #1
gcm_encrypt_and_tag:"4fb4ab2071b1ff4ec239ac05c04800806df2c256a4845b13a":":"":3ee0e2e72eea437e46a873bd659b1c4a":":":96:"572d3ec2650ad57ee84fe00":0

GCM NIST Validation (AES-192,128,0,96) #2
gcm_encrypt_and_tag:"193d5eb8b460d3fe86754bba413c65112ae29c5ca5e450e4":":"":04e9d31b3b205ca37c435d
GCM NIST Validation (AES-192,128,0,0,64) #0
gcm_encrypt_and_tag:"9a455e1a04c6ac9e365bc48317a6c092b65ee9bcf1b86":"":"6be4417d7c00fe9c731e0932a7037a71":"":"68b6c28786a017e7"":0

GCM NIST Validation (AES-128,0,0,64) #1
gcm_encrypt_and_tag:"d6fff8797db2f1f884b7d71e3e3e5983234a837db0c2cd6":"":"6258168da407ce43cc18d6931497c1f3":"":"68a57262b":0

GCM NIST Validation (AES-192,128,0,0,32) #0
gcm_encrypt_and_tag:"9295cc6458d907da5e7c356a7de51eb8e8d3031f72a05fb7":"":"c7eaad3389fc24a4ef96a711ffbf9f9e":"":"32e6a57262b":0

GCM NIST Validation (AES-128,0,0,32) #1
gcm_encrypt_and_tag:"308b6ee958f81a7fbf3bc386e167459206dfc1cb999d904":"":"2e61b991ce478d9aae818d7aa75ada36":"":"32ead170":0

GCM NIST Validation (AES-192,128,0,0,32) #2
gcm_encrypt_and_tag:"873d033773218387690c2871448578d8440ef36553583928":"":"2072ec745c856c6e86873a0523d603a":"":"e6a57262b":0

GCM NIST Validation (AES-128,0,0,32) #0
gcm_encrypt_and_tag:"c9f9e104c458f5b6be4b896694d9bc1a5dcd1dfe":"":"0a745c6910b23c78b1b44c02f1ce11b2":0
c67724b9f3676519fb70117b7cbf8571e903b0f01382e404793c1daff5a5b41317fc3041014941d2c53871bbe3ff18e089aabb13aa8ea220c8b89ef65bea1581e88ac43d184203532ad88546162170e7f1f9467e6b22071ce88b7e3b89ad9e02a7058401aa4f2b5d0ce050092b65059128e66ee789bfb03f2dc10503":"":"8ec41e9c76e96c031c18621b00c33a13":0

GCM NIST Validation (AES-128,0,0,1024,128) #0
gcm_encrypt_and_tag:"6c9f16c5d0f4bd8d18559595cad1c4253759b6e2a833995b":"":"3f25e3210d69d9aca8725eb55c813ce":7c6a66d93e95ce1028310cfa3670b77fbeb5eb96b27a667859665c1dee8e69930c287fbf1a3706ed1a0d35eb6d1b6cb236352a2265b86b6bc27e1e1dce4ac6d5974de88b9812b399b289b24908213b15fd677da23f3abadae4b3630e2571ac887ed951a49051b0cc551e7eb924c0cbb1c516f71db60e24773430dcd34f47b":"":"6e000478b55ebbc08c01b685f2a2f525a9":0

GCM NIST Validation (AES-128,0,0,1024,128) #1
gcm_encrypt_and_tag:"a8e393e00714cd94de0347351b924ebd555003f3a297493f":"":"9c7eafa730fa8074ac372fdec53b726c":ce4eb4ce67d85c5e6af6e11d33d64de42774d45250d0d52b328834385e1eba96703daab81d7a981d80c469855e14d834df41e4e4e988793f3db777fc0562f284c466b701a530f27fc4e6838ccbd162db34b8e8a23131360d199a9ce14d32a214117355f057f38af51a89a9c783af3d410de3f2bbd07b90a4eb2":"":"66bb46adf7b981f7ce39e5ff53390f":0

GCM NIST Validation (AES-128,0,0,1024,120) #0
bd4256a49d0793a10a670e3f086408428e": ","cece8b66a657e4bdf693f48ac52e60770":":","015a318ac6b198189ce908ab
1af28578a37a48beeed772c64dce0ba3cb092df85f65232456a2507c8e0284da4d9074f3b0477384ae2e8d5d5
53dd0d3a979450b6c7a66fd9c11f1879ea9072699837f2de71921568fe5d9411d83d71fe63ece4e326ff50a24fc75
004a5ba2bd4845b29e079469943df1e5d6e":":9cf6f90a":0

GCM NIST Validation (AES-128,128,128,128,128) #0
gcm_encrypt_and_tag:"4cddc8f525640fc0a0875c65b788ea75c657364f1aa4ed4":":55e3cbe855cf1fd3d3280348
5fd85ab8d8ade129996906581d4dade603d3c379621967e95df02aef3d8775116247771c469be2afbf668cb879eb1
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b1d58c5ebec82f825f3cdebda1d5c673195":":148dd113366290365f64f2d26e0b4ec74fe7d547586ecad95e5c8b3383
4362eb644447d923e107a060cc6ac359fc3a203f9070eb9f61e6a486606e9b50a9719e12f7311de28719fe1e78c9713e
db4525b221f656a340ce687405c41b363dbbce96d52ac64d37acd7a55f251a50fa15ea8f9b8955606eea465c759e2f48
1e8":":dec3edc19f3d9f29e67c9e78211c71ce":0

GCM NIST Validation (AES-128,128,128,128,128) #2
GCM NIST Validation (AES-128,128,128,128,128) #1
gcm_encrypt_and_tag:"3b8c31830b1139a60425f6a343875fca2b6e5fa5074af1d":":95f4e09729de0f0b89090d547948
8053f656bd0f53ed461e7e7071761904bb2cbe82f801481bb5415a670e619c8b30c2b2afa78efcfc60f1e3c798a0ffbd
460475754726514d5f3f49a2f22c37ec76f05b75fe3c1b76f732b0ad628d9ed71f66ec8d55b56f7ba883ff9d459d5
02244804b87bd061217a4afac505b3":":5a477d477b3e4c8ba44b8db0904b6
6da49f4153a4e9c8561ca4fe88300081b79998c4d65f4e34ab3ec5e688a021d12c186974b0c331a6a33d511e79bf
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97f587725a972111ade87d862a90a7d":":1d0211d7d7bec914e5ba1b7d47ac5a4f3bf7a9d69f6cef64b8689b0e8a
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2733adb4d8aa09e11cc2792fe1bb82fa49f19a1cc054a975ac368e3224ba8f57000455e4047901bbab6fb67de41f9
4":":2368128c722295c480397f0c4e848a1":0

GCM NIST Validation (AES-128,128,128,128,128) #2

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GCM NIST Validation (AES-128, 122, 124, 128, 112, 112) #1

gcm_encrypt_and_tag:"3e6f7767e68208208e5315b681b73\":0

GCM NIST Validation (AES-128, 122, 124, 128, 112, 112) #2

gcm_encrypt_and_tag:"3e6f7767e68208208e5315b681b73\":0

GCM NIST Validation (AES-122, 124, 128, 112, 112) #1

gcm_encrypt_and_tag:"3e6f7767e68208208e5315b681b73\":0

GCM NIST Validation (AES-122, 124, 128, 112, 112) #2

gcm_encrypt_and_tag:"3e6f7767e68208208e5315b681b73\":0

GCM NIST Validation (AES-122, 124, 128, 112, 112) #0

gcm_encrypt_and_tag:"3e6f7767e68208208e5315b681b73\":0

GCM NIST Validation (AES-122, 124, 128, 112, 112) #4

gcm_encrypt_and_tag:"3e6f7767e68208208e5315b681b73\":0

GCM NIST Validation (AES-122, 124, 128, 112, 112) #0

gcm_encrypt_and_tag:"3e6f7767e68208208e5315b681b73\":0
AES-128-CFB128 Encrypt NIST KAT #4
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"64cf9c7aeac5b888af65f49d521944b2":"00000000000000000000000000000000":"00000000000000000000000000000000":"t7efc89d5dba578104016ce5ad659c05"

AES-128-CFB128 Encrypt NIST KAT #5
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"47d6742eefcc0465dc96355e851b64d9":"00000000000000000000000000000000":"00000000000000000000000000000000":"0306194f666d183624aa230a8b264ae7"

AES-128-CFB128 Encrypt NIST KAT #6
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"3eb39790678e56beee34bbcece6c6db5":"00000000000000000000000000000000":"00000000000000000000000000000000":"858075d536d79c3ee5712d7204b1f67"

AES-128-CFB128 Encrypt NIST KAT #7
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"00000000000000000000000000000000":"6a118a874519e64e9963798a503f1d35":"00000000000000000000000000000000":"dc43be40be0e5371f7d7204b1f67"

AES-128-CFB128 Encrypt NIST KAT #8
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"00000000000000000000000000000000":"cb9fceec81286ca3e989bd979b0cb284":"00000000000000000000000000000000":"92beedab1895a94faa69b632e5cc47ce"

AES-128-CFB128 Encrypt NIST KAT #9
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"00000000000000000000000000000000":"b26aeb1874e47ca8358ff22378f09144":"00000000000000000000000000000000":"459264f47986a78bcb89e15ed3d601"

AES-128-CFB128 Encrypt NIST KAT #10
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"00000000000000000000000000000000":"ffffffffffffffffffffffff0":"00000000000000000000000000000000":"f9b0fda0c4a898f5b9e6f661c4ce4d07"

AES-128-CFB128 Encrypt NIST KAT #11
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"00000000000000000000000000000000":"ffffffffffffffffffffffff8":"00000000000000000000000000000000":"8ade895913685c67c5269f8aae42983e"

AES-128-CFB128 Encrypt NIST KAT #12
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"00000000000000000000000000000000":"fffffffffffffffffffffffffc":"00000000000000000000000000000000":"39bde67d5c8ed8a8b1c37eb8fa9f5ac0"

AES-128-CFB128 Decrypt NIST KAT #1
depends_on:POLARSSL_CIPHER_MODE_CFB
AES-128-CFB128 Decrypt NIST KAT #2
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"ffffffff0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
AES-128-CFB128 Decrypt NIST KAT #11
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"00000000000000000000000000000000":"ffffffffffffffff8000000000000000":"41f992a856fb2
78b389a62f5d274d7e9":"00000000000000000000000000000000"
AES-128-CFB128 Decrypt NIST KAT #12
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"00000000000000000000000000000000":"ffffffffffffffffc000000000000000":"10d3ed7a6fe15
ab4d91acbc7d0767ab1":"00000000000000000000000000000000"
AES-192-CFB128 Encrypt NIST KAT #1
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"fffffffffffffffffffc0000000000000000000000000000":"00000000000000000000000000000000
":"00000000000000000000000000000000":"8dfd999be5d0cfa35732c0ddc88ff5a5"
AES-192-CFB128 Encrypt NIST KAT #2
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"fffffffffffffffffffe0000000000000000000000000000":"00000000000000000000000000000000
":"00000000000000000000000000000000":"02647c76a300c3173b841487eb2bae9f"
AES-192-CFB128 Encrypt NIST KAT #3
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"ffffffffffffffffffff0000000000000000000000000000":"00000000000000000000000000000000
":"00000000000000000000000000000000":"172df8b02f04b53adab028b4e01acd87"
AES-192-CFB128 Encrypt NIST KAT #4
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"d184c36cf0dddfec39e654195006022237871a47c33d3198":"000000000000000000000000000
00000":"00000000000000000000000000000000":"2e19fb60a3e1de0166f483c97824a978"
AES-192-CFB128 Encrypt NIST KAT #5
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"4c6994ffa9dcdc805b60c2c0095334c42d95a8fc0ca5b080":"0000000000000000000000000000
0000":"00000000000000000000000000000000":"7656709538dd5fec41e0ce6a0f8e207d"
AES-192-CFB128 Encrypt NIST KAT #6
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"c88f5b00a4ef9a6840e2acaf33f00a3bdc4e25895303fa72":"0000000000000000000000000000
0000":"00000000000000000000000000000000":"a67cf333b314d411d3c0ae6e1cfcd8f5"
AES-192-CFB128 Encrypt NIST KAT #7
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"000000000000000000000000000000000000000000000000":"9c2d8842e5f48f57648205d39a
239af1":"00000000000000000000000000000000":"c9b8135ff1b5adc413dfd053b21bd96d"
AES-192-CFB128 Encrypt NIST KAT #8
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"000000000000000000000000000000000000000000000000":"bff52510095f518ecca60af4205

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<table>
<thead>
<tr>
<th>NIST KAT</th>
<th>Function</th>
<th>Depends On</th>
</tr>
</thead>
<tbody>
<tr>
<td>#9</td>
<td>Encrypt</td>
<td>POLARSSL_CIPHER_MODE_CFB</td>
</tr>
<tr>
<td>#10</td>
<td>Encrypt</td>
<td>POLARSSL_CIPHER_MODE_CFB</td>
</tr>
<tr>
<td>#11</td>
<td>Encrypt</td>
<td>POLARSSL_CIPHER_MODE_CFB</td>
</tr>
<tr>
<td>#12</td>
<td>Encrypt</td>
<td>POLARSSL_CIPHER_MODE_CFB</td>
</tr>
<tr>
<td>#1</td>
<td>Decrypt</td>
<td>POLARSSL_CIPHER_MODE_CFB</td>
</tr>
<tr>
<td>#2</td>
<td>Decrypt</td>
<td>POLARSSL_CIPHER_MODE_CFB</td>
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<tr>
<td>#3</td>
<td>Decrypt</td>
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<tr>
<td>#4</td>
<td>Decrypt</td>
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<tr>
<td>#5</td>
<td>Decrypt</td>
<td>POLARSSL_CIPHER_MODE_CFB</td>
</tr>
<tr>
<td>#6</td>
<td>Decrypt</td>
<td>POLARSSL_CIPHER_MODE_CFB</td>
</tr>
</tbody>
</table>
AES-192-CFB128 Decrypt NIST KAT #7
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "1b077a6af4b7f98229de786d7516b639": "275cfc0413d8c8b70513c3859b1d9f72": "0000000000000000000000000000000000000000000000000000000000000000"

AES-192-CFB128 Decrypt NIST KAT #8
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "9e2d8842e5f48f57648205d39a239af1": "c9b8135ff1b5a9e4133d5f5321b596d": "0000000000000000000000000000000000000000000000000000000000000000"

AES-192-CFB128 Decrypt NIST KAT #9
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "bff5251009f518ecca60af4205444bb": "4a3650c3371ce2eb335e389a171427440": "0000000000000000000000000000000000000000000000000000000000000000"

AES-192-CFB128 Decrypt NIST KAT #10
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "54d632d03aba0bd0f91877ebdd4d9fcb": "0000000000000000000000000000000000000000000000000000000000000000"

AES-192-CFB128 Decrypt NIST KAT #11
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "d3427be7e4d27cd54f5fe37b0c370897": "0000000000000000000000000000000000000000000000000000000000000000"

AES-192-CFB128 Decrypt NIST KAT #12
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128: "0000000000000000000000000000000000000000000000000000000000000000": "b2099795e88cc158fd75e133d27fe7fb": "0000000000000000000000000000000000000000000000000000000000000000"

AES-256-CFB128 Encrypt NIST KAT #1
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "fffffff0000000000000000000000000000000000000000000000000000000000000000": "07058e408f5b99b0e0f66a1761b53b": "0000000000000000000000000000000000000000000000000000000000000000"

AES-256-CFB128 Encrypt NIST KAT #2
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "fffffff0000000000000000000000000000000000000000000000000000000000000000": "0000000000000000000000000000000000000000000000000000000000000000"

AES-256-CFB128 Encrypt NIST KAT #3
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128: "fffffff0000000000000000000000000000000000000000000000000000000000000000": "5f13fa0f31e37fabde328f894eac2": "0000000000000000000000000000000000000000000000000000000000000000"
AES-256-CFB128 Encrypt NIST KAT #4
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_encrypt_cfb128:"13428b5e4c005e0636dd338405d173ab135dec2a25c22c5df07222d69dce43887":"0000000000
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aes_decrypt_cfb128:"ffffffffff800000000000000000000000000000000000000000000000000000":"0000000000000
0000000000000000000":"be66cfea2fecd6bf0ec7b4352c99bcaa":"00000000000000000000000000000000"
AES-256-CFB128 Decrypt NIST KAT #2
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"ffffffffffc00000000000000000000000000000000000000000000000000000":"0000000000000
0000000000000000000":"df31144f87a2ef523facdcf21a427804":"00000000000000000000000000000000"
AES-256-CFB128 Decrypt NIST KAT #3
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"ffffffffffe00000000000000000000000000000000000000000000000000000":"0000000000000
0000000000000000000":"b5bb0f5629fb6aae5e1839a3c3625d63":"00000000000000000000000000000000"
AES-256-CFB128 Decrypt NIST KAT #4
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"1d85a181b54cde51f0e098095b2962fdc93b51fe9b88602b3f54130bf76a5bd9":"000000000000
00000000000000000000":"531c2c38344578b84d50b3c917bbb6e1":"00000000000000000000000000000000"
AES-256-CFB128 Decrypt NIST KAT #5
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"dc0eba1f2232a7879ded34ed8428eeb8769b056bbaf8ad77cb65c3541430b4cf":"000000000000
00000000000000000000":"fc6aec906323480005c58e7e1ab004ad":"00000000000000000000000000000000"
AES-256-CFB128 Decrypt NIST KAT #6
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"f8be9ba615c5a952cabbca24f68f8593039624d524c816acda2c9183bd917cb9":"000000000000
00000000000000000000":"a3944b95ca0b52043584ef02151926a8":"00000000000000000000000000000000"
AES-256-CFB128 Decrypt NIST KAT #7
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"0000000000000000000000000000000000000000000000000000000000000000":"761c1fe41a
18acf20d241650611d90f1":"623a52fcea5d443e48d9181ab32c7421":"00000000000000000000000000000000"
AES-256-CFB128 Decrypt NIST KAT #8
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"0000000000000000000000000000000000000000000000000000000000000000":"8a560769d6
05868ad80d819bdba03771":"38f2c7ae10612415d27ca190d27da8b4":"00000000000000000000000000000000"
AES-256-CFB128 Decrypt NIST KAT #9
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"0000000000000000000000000000000000000000000000000000000000000000":"91fbef2d15
a97816060bee1feaa49afe":"1bc704f1bce135ceb810341b216d7abe":"00000000000000000000000000000000"
AES-256-CFB128 Decrypt NIST KAT #10
depends_on:POLARSSL_CIPHER_MODE_CFB
aes_decrypt_cfb128:"0000000000000000000000000000000000000000000000000000000000000000":"e000000000
0000000000000000000000":"9b80eefb7ebe2d2b16247aa0efc72f5d":"00000000000000000000000000000000"

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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"":"f8000000000000000000000000000000000000000000000000000000000000000"
P =
C3CF8BCFD9E88B0CC35EC526F3D63FA001D9392E6CA81F3B41473955C582758B52038FAFBF402B8C29
DC32F5231B0D2E25B252850C7D4DBEF46DE7989E51DEA07A53BCF79474C9EBA28F9CBABFB0267EC3
BCF57B15A49964236B56773851D6621E546F410D504F13827218CD14A1FDB69522DC72DD67D880E51B2E0
0894F
G = 04
00G*H
8400*H
00*H
0
*H
00C(-ca2):eEy9_/mV(u)k=3E2th=Ar9QeL?zDMJyW4=/|=]YQjaMv&W9[ž#o2]<|6z
7HR`NgbSinV@B_x2yjEKdw^h6]=!1/;8
ARp-xM6/"N06<6kDo:y7UY@M1wUwWl""o_Kd^"*Om{X8?5+EyV suicbj];maG(,cGB
@tWZcfwF~s[K"OrT9iF+{B6jUG"OMrNdI+==cHu[T/gxJ<^;\2j*uJT=`kB
%*EQWqsQi28/8/;|=]s{jqI-SafV^v
mkgx-xt##6e7Rtv.7,3Kg2*9'E+mE
*nehjGt39o?|a\u4ILjFwswaO19Cu/S#S%tViprW=0.&K7w0A*H
2.0*0*H
00
*H
0x*Bw~U)C<7K5E'xn+
eg:s$eg:9
2+9
ue7<4</7P0^JgwU--kp"
:puq-0[n{CZQ/;6JP
EO*5(wwet1u1.ZmG~IM4eAug]0r
&[OK-,#8W&M!YoE+BMOzw[i4]MX9X+)
HPBy."
8K@hWSMKN&Z-
SEfh8u%pO+wyljuOy1P;8<>%Xm-
KMyM#%r;C"PCd"viQoQRvH2iG@\n"lh:dG
3%[b]-FD]5snG
_ma_<b51Vml]jb\uRJ
:dCp"/BhDR7MHar)L1]W$&700E[r(bj`&zpp-);#YO-TW,2h4Ez+~&-(t
:en]W#eFWVuzZXrKmw[4.zp>QdJmK6,.SezBl;:6ez"Xj1&
8]kUoakMw~gl~#&s&Q]]/5,t*"_m@DuPxyY01>MSa].>R*pS6'Mrxr6;{55O(gJH#LG]]/H#lnKPI6Dk2PiA(g
21%0*H
10%UH)0010!0+CSX!4e6
<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>
</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)'=='Release|Win32'">
<ClCompile>
<WarningLevel>Level3</WarningLevel>
<PrecompiledHeader>
</PrecompiledHeader>
<Optimization>MaxSpeed</Optimization>
<FunctionLevelLinking>true</FunctionLevelLinking>
<IntrinsicFunctions>true</IntrinsicFunctions>
<PreprocessorDefinitions>WIN32;NDEBUG;_CONSOLE;%{PreprocessorDefinitions}</PreprocessorDefinitions>
</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>
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<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;odbc32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
</Link>
</ItemDefinitionGroup>
<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)="Release|x64">
  <ClCompile>
    <WarningLevel>Level3</WarningLevel>
    <PrecompiledHeader>
      <WarningLevel>Level3</WarningLevel>
    </PrecompiledHeader>
    <Optimization>MaxSpeed</Optimization>
    <FunctionLevelLinking>true</FunctionLevelLinking>
    <IntrinsicFunctions>true</IntrinsicFunctions>
  </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" />
</Project>

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-----
MIIDdjBAbgkqhkjiG9w0BBQowMzAbBgqkhiG9w0BBQwwDgQfI4W7G1sVqHJMCAGgA
MBQGCQcG5Ih3DQMBAGaXQgkhIhtE9yEAVSCBQg68SwrdD/DELKepCTK3E6wHvK6wI7
CxwFv2U/gfNfCUNXBPZI4G7volf1XOLJ8h0WQvEraHoro7zY1W5IKy98If6wOpDGDoz
URvavOVT3RyQfLItOZgVeLmJb6q0AcAl1qDULx4xXqhm3r9xR/VxAcKB8C5Ge
JxU+1TbjGJ0uVDmr28dIhO8Jqgbpp9N6M/e8kITIu8ty6lkKFPfumWN9zIvMY9VRlxO
Ajr1RdIiFXZX4ayEnja2RIZwii89rn/rC/QzqszQMFr5axw58wzv/0/EFd/79gKoOX
jKBEmWN44LsJW/ucy3pmXx7uxavbZvOQZlzeZCeeVVeCAAhCRFq+gVspUn5I5ZEDL
0GU+CKXWv+zDuUfUfLx7LWjFqry1R2ov1282CdrkA0TSKZB0AECYF0qGDespite51WoZMnE
uaaKLpO5y85e50mHx4kmk2saAacd0/YolHjkk52Ne1Zs+ORwpEO4ruZY/+wem/TG
KFQxVhVjZ/AsqYFszXarOQ4QOvtxw52Vz677rvaIaDklnYytveEbHiNiNmt2Ni+u
wac1VcdeKLpUrNmpJal6fzWvrVqMl9q9biHexGnN9K2WTGZCQCIxDTFpoE1
HC85cD4h91eBVf4Qm/ML/WmaAGAGQUIiTX5vESIJJ1pKXYGqv1cr1pj+mTqjpfApl
KO9j3y4n4x4s20mwe9DPOBOaj5MuuzWZ0eq7mt7QeNP9uunjzDVpVg+msvFbb0
5tHFWX4JZo2sfrwpoJekiHxlkQpZ5rbwTV1601MdDjZTNBeYgB0U10U1l9f
mM35I1AFZWzrXXv3k5ZRFQU2J7DFFP9zHWsa7quhduvt498rxxU7IYAQhaU/
vVkx+Sfca7AgiRQYWzvmVh0OwOvTMvKhNLniiG6QsgWRhm0ivdHdrNiRvahzlybRlyt
ppMaql0gDu88/8SMCce8yq53rdXerXW/0QxCZJQ3eUDufqxjC2leTOebChML1s6p+9B
qaPjt3xIrscQZMD9g4jYUXUawH5q5Bb/MegD5sfvT13ql+q3sQncleXDUz2gj+MBIHI
Qp6fHZMs2woAbvFyAXSUXeKAOZwM1WmRRmz6S6w9aPmMwSYxZTuku3+CpEZqi
BdBzixaYxu9Z5694C1eXpPli6u6svZ50IpElUIUDUpJmM9gqpx1Kx40vydMZ
+9aAVdGKX118uwZ6Al4frPOOmwI12X1xmffG3grbVHVD9IGJ1HGWPZIo4F/eaif
ksYHr0410JRAovd9G4rvr6rqZE5QcLCmXyh5Hw9vF3RJDKA4arcaL5RPy8sIEJ
NcZ7XTCkUc7tGwCVmo3agoszzrZKCS5x6rvoC0YgdU3oZ072dIIfQYK2KpJp0n2
RRWjdj2X7YRqoDsdXaZ3/wmgJ7Fl4Rhb+cvJEiLZwWGUQTS3B4Z0GW8lP4w1Aw
d4qBAA4lVXo++HHzVpqOPaLa+nZgFS22ygt0VYyd7Iwc9HCdMsMrZFAxisVQQ2
zDnysFLg4dkDuJJuitionerVKC8cMec45j9zruunu2zF248q3WBdF7dECxy
qqOsMBG1v0+oZMPn3yvU7X7jaa4toW+dG3QXqnxUQ2GyB/BAEamO4CWWbKSFy1
tfM=
-----END ENCRYPTED PRIVATE KEY-----

unique_subject = no
-----BEGIN CERTIFICATE REQUEST-----
MIICgTCCASkCAWAwDQYJKoZIhvcNAQEFBQADggEPADCCAQoCggEBAKkCHz1AatVVU4v9Nu6CZ5S4VY6V7j0/RZdB7ogWUtPqx1BHLhJZ
Zldr/SvgRlvzvt3PkuGRW+1moG+JKXlFgNCdatBVQ3df0XwJBeEcSfcO2J7BUZ
HqgzCEIBBUKpUzDzNdldbh9NEFFAZ3MTD04dYeiXwqU8YWhuU5rPla7n+SnqYF
Wt+ctJi4W115ZL1CQG1QkxUHXaYaj8JG68tFZSx65Wh3P5BXhemo2mxbaCwCuhQs
FiScStzN0PdSZ3 PXaAJ/x70McotcMqICwTbLzPPc6ezr1YeIESTWZ5uWpJ4og/
<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>

<PropertyGroup Condition="$(Configuration)|$(Platform)="Release|x64" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>false</UseDebugLibraries>
  <WholeProgramOptimization>true</WholeProgramOptimization>
  <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>

<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 Condition="$(Configuration)|$(Platform)="Release|Win32" Label="PropertySheets">
</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>
<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;odbc3cp32.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;odbc32.lib;odbc3cp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
    <AdditionalLibraryDirectories>Debug</AdditionalLibraryDirectories>
  </Link>
  <ProjectReference />
</ItemDefinitionGroup>
<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)='Release|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;odbc3cp32.lib;%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
    <AdditionalLibraryDirectories>Debug</AdditionalLibraryDirectories>
  </Link>
  <ProjectReference />
</ItemDefinitionGroup>
CN=PolarSSL Test CA\nMyFile(0999): subject name : C=NL, O=PolarSSL, CN=PolarSSL Server
MyFile(0999):  a9 02 1f 3d 40 6a d5 55 53 8b fd 36 ee 82 65 2e\nMyFile(0999):  15 61 5e 89 bf b8 e8 45 90 db ee 88 16 52 d3 f1\nMyFile(0999):  43 50 47 96 12 59 64 87 6b fd 2b e0 46 f9 73 be\nMyFile(0999):  dd cf 92 e1 91 5b ed 66 a0 6f 89 29 79 45 80 d0\nMyFile(0999):  83 6a d5 41 43 77 5f 39 7c 09 04 47 82 b0 57 39\nMyFile(0999):  na\nMyFile(0999):  70 ed a3 ec 15 19 1e a8 33 08 47 c1 05 42 a9\nMyFile(0999):  fd\nMyFile(0999):  4c c3 b4 df dd 06 1f 51 50 46 90 1b 51 56 c6 30\nMyFile(0999):  7e 15 39 ac f9 5a MyFile(0999):  ee 7f 92 97 85 b5 23 92 d9 d4\nMyFile(0999):  na\nMyFile(0999):  04 06 25 89 75 07 dd a6 1a 8f 3f 09 19 be\nMyFile(0999):  na\nMyFile(0999):  76 c0 ba 14 2c 16 24 9c 4a dc cd df 17 52 67 MyFile(0999):  73 f1 2d a0 23 fd 7e f4 31 ca 2d 70 ca 89 0b 04\nMyFile(0999):  na\nMyFile(0999):  db 2e a6 70 6e 9e ce bd 58 89 e2 53 59 9e 6e\nMyFile(0999):  5a 92 65 e2 88 3f 0c 94 19 a3 dd e5 89 9d 53 MyFile(0999):  ed 29 db ab 70 12 dc 5a ca 6b 17 ab 52 82 54 b1\nMyFile(0999):  value of 'crt->rsa.E' (17 bits) is:
MyFile(0999):  01 00 01
"
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---BEGIN RSA PRIVATE KEY-----

-----BEGIN CERTIFICATE REQUEST-----

---END RSA PRIVATE KEY-----
h5ht1qGxkFzALg0REIIUWqVTtk9oWLOg6pv+qees90SAnt031Vc2C3++ctQONUrko
fc8aAGAIA9dV-SufkJhj2zpk8fRd4duhJQpmiYxxPp27K5NhVxr0GCBW7ruGchG8Mc
K+PNNuvoz425DHk3dHeozIW2DKa25mbjgbW1rqAdT7KZSYH2QqZTH5Kcr0u5iPtSD
gF7K0AAMt2LiSs1p82n++cLF78fz
-----END CERTIFICATE REQUEST-----
-----BEGIN RSA PRIVATE KEY-----
Proc-Type: 4,ENCRYPTED
DEK-Info: AES-192-CBC,72F869F41B989D71730B2983448251B8

R6ST6H9oUyFwBavU0++azbn9ga87lgeuqNMVScOeXjguqQZdnuZq9AzwQ6ETE+v+
ZbVPL9w2isuXXoavaPXxYxXbZ+i6JRTiWiX6i6CnnfNhx4Xgyp9BEqGbxVxA3f
z/1XwU+1u6QeERshDNke6HfFj91WkBjNjrXcfDmt0uRGqF5Wd55DN6nyPmexC
mpRurw9XESfjBkCHL+iSkW0EZBjwHW0//RNnsZKtuqVJGW/dZhbDxerOGR10a10Wkb
IvTED7arfXMlpHokMwtrUudk2TBE1AoccyZ6dV77RZGipBR4yb9kYglqi9Fk53lg5h
7B3WQtT7YEC17XQUL2D9GqQPuChVud0uUXYmQ5328HRE8zKbWxHqGmTQV0BWVB6X+F
ikFRLueYBeq0Uju20DmvklZV6iDxSULlu+Rh0b8NkT+V2feSXbrP976oCSUzncT6
3e2EOH+KAgMy5fZHtJl7HtkleMwYQ9+v+Whbm10Sb9dYWUJuhQXt6v8dkm/eD
9m6dZivpc/hUThLuZPo+65F70luIt5u2UcnYyDyOgKsd5V0wzGaJn3C5Gw
JEbebucr+5P0Hxf1V5Txgfnfj6sJyVd/wy0T8sMRO2znk5uVLWxf855fNXev9M3
gA3+MXC2eGa9D9DXoxaFRwL+z30RlltlaqDK7b6BZRD4sWB6dltvR5dCXPNNMCuDH
dxtKc959uPAEB2VyhDvm5C3T+bc2K6WDZFO95hKfEk5eacUB7DA2aucfodayE
Hd46UEK4/cdUFiSycgD01ztdda7hU7hFvokHTK703G1yvEwH0+jxKNsudNfbbx
-----END RSA PRIVATE KEY-----
# Doxygen 1.6.3

# 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

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# 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): "The $name class" "The $name widget" # "The $name file" "is" "provides" "specifies" "contains" # "represents" "a" "an" "the"

**ABBREVIATE_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 proget 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.

IDL_PROPERTY_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
#---------------------------------------------

# If the EXTRACT_ALL tag is set to YES doxygen will assume all entities in
# documentation are documented, even if no documentation was available.
# Private class members and static file members will be hidden unless
# the EXTRACT_PRIVATE and EXTRACT_STATIC tags are set to YES

EXTRACT_ALL = YES

# If the EXTRACT_PRIVATE tag is set to YES all private members of a class
EXTRACT_PRIVATE = YES

EXTRACT_STATIC = YES

EXTRACT_LOCAL_CLASSES = YES

EXTRACT_LOCAL_METHODS = YES

EXTRACT_ANON_NSPACES = YES

HIDE_UNDOC_MEMBERS = NO

HIDE_UNDOC_CLASSES = NO

HIDE_FRIEND_COMPOUNDS
# 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) the group names will appear in their defined order.

`SORT_GROUP_NAMES = NO`

If the `SORT_BY_SCOPE_NAME` tag is set to YES, the class list will be sorted by fully-qualified names, including namespaces. If set to NO (the default), the class list will be sorted only by class name, not including the namespace part.

`SORT_BY_SCOPE_NAME = NO`

The `GENERATE_TODOLIST` tag can be used to enable (YES) or disable (NO) the todo list. This list is created by putting `\todo` commands in the documentation.

`GENERATE_TODOLIST = YES`

The `GENERATE_TESTLIST` tag can be used to enable (YES) or disable (NO) the test list. This list is created by putting `\test` commands in the documentation.
GENERATE_TESTLIST = YES

# The GENERATE_BUGLIST tag can be used to enable (YES) or disable (NO) the bug list. This list is created by putting \bug commands in the documentation.

GENERATE_BUGLIST = YES

# The GENERATE_DEPRECATEDLIST tag can be used to enable (YES) or disable (NO) the deprecated list. This list is created by putting \deprecated commands in the documentation.

GENERATE_DEPRECATEDLIST = YES

# The ENABLED_SECTIONS tag can be used to enable conditional documentation sections, marked by \if sectionname ... \endif.

ENABLED_SECTIONS =

# The MAX_INITIALIZER_LINES tag determines the maximum number of lines the initial value of a variable or define consists of for it to appear in the documentation. If the initializer consists of more lines than specified here it will be hidden. Use a value of 0 to hide initializers completely. The appearance of the initializer of individual variables and defines in the 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 \n*.h

# 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 \nprograms \nCMakeFiles

# 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
EXMPL

# 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_PATTERNS is specified, this tag will be
# ignored.

INPUT_FILTER =

# The FILTER_PATTERNS 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=my_cpp_filter). See INPUT_FILTER for further
# info on how filters are used. If FILTER_PATTERNS is empty, INPUT_FILTER
# is applied to all files.

FILTER_PATTERNS =

# 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

# 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.
# 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 (hlc) 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 QHP_NAMESPACE tag specifies the namespace to use when generating
# Qt Help Project output. For more information please see
# http://doc.trolltech.com/qhelpproject.html#namespace

QHP_NAMESPACE   = 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/qhelpproject.html#virtual-folders

QHP_VIRTUAL_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 need 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
# index
# 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 then 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, SHOW_DIRECTORIES 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
# \dotfile command).

DOTFILE_DIRS           =

# The 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
# 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 MAX_DOT_GRAPH_DEPTH.

DOT_GRAPH_MAX_NODES    = 50

# The 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
# DOT_GRAPH_MAX_NODES. Using a depth of 0 means no depth restriction.

MAX_DOT_GRAPH_DEPTH    = 1000
# Set the 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 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 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 DOT_CLEANUP tag is set to YES (the default) Doxygen will remove the intermediate dot files that are used to generate the various graphs.

DOT_CLEANUP = YES

-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAITGi6vtK4JSi5ElpuVB83iSgJvdKoqxI2qSjDqKCRXHRHTjBIyIsluQYyOyoxQdQi4IQ2wmXMWwow5k4MqRyMBx5PJuUWo95emuPvmiCALYfQZdzwkkpSFq6+iWnAEiKwXxl8xgyAqcnGfqbqE8/KVvVdhhKQoxfHKQbW5d4SrBE5XEL5u60YzmNhu9a2N63HRa5N1hczRQQqS5VCxo6peWnmt9Nv3L6b2Xo1xNoiHAOb2sQlb4TxDX84+XiCwxwDszdFNB0isSpqU5kO7EE7WclCmn9ISJP45cKhOahj7YEHSglJnJ2LmKulAk8+9CamIv6t4scrZWQIDAQABAdBAAAnv1xP2VRUVSN9ybdzv/ZDVzLzJw5b6+6jgkKTUVhdPdjvNyb7t+FLA0T6sjs3JFeQSWBGONqXv5FQ6dRPCxGeVwUOQHv3OwkziSdjmnS/tBzRacihELOmqB/tj0MmUQBmYK2ME+a+dh/9cs3FY0adIldePqVBYCRKzISZjd4NG9Ysmaw4GxxHDSOaFswHmdqXwpojy5Sf2iz7kcFeR8XkgmWzLH0fWqZnXgpt+B1FZ5H2/trsXRz2MpuJz1bk1bPw608i+7dHaah+puj3/VkdBVOf6e1EKnvyWw6UnJqZeUnp963zVFeld3UxZr6fTsOxw/pVXgFFDK0SECgYEAXXn5symq/cq5xfw65VCy697joowCkew6xtlmxqFDLuH99UiA7bY9M2l4pjKdenGuPEpdEm/GZz30Dv7pBskBdCUTxcroPhEWcc3dYWYQ/AQlFrZbplog6qEppiJvtnT9u9ZUjRo647pXYQxsSvfdShqiddU5DnE9F1SwdUCgYEAwWiWhTVzIzGTnuXqBii7kueCLStgT3zrKxnu1f9qhtipOGFxswbtXswQVu62UW/bg12l5sYyhWETFIlGckIvOUJnCeLGNiMopoNZlnjq0EkrkUWsdVypN14FrDexZsvyaAL6wKteSWmH+rzB22P1+NubtkcXF2qBRLt3UCgYEAq7arrOHM2VjIT6fRJhmrsz6MuJSqtTw94QwiteMa/7VdWwhsSmStdPkJZNG871cvlOTc13pApWiuRFTJzXv17pVTV4jvdJBNhO+YuxU8jnF4cRFxocyZYZ05+A8tp3yriRkIrHpH95c60F72p3RN0RH3mlWdywX78vEeCM10CgYEAsDFa7nv7hnTvgw3/3b68adOSQsUmUgTpfC4OFw-----END RSA PRIVATE KEY-----
<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)|$(Platform)=""Debug|Win32"" Label="LocalAppDataPlatform" />
 <Import Group Condition=""$(Configuration)|$(Platform)=""Debug|x64" Label="LocalAppDataPlatform" />
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 <LinkIncremental>true</LinkIncremental>
 </PropertyGroup>
 <PropertyGroup Condition=""$(Configuration)|$(Platform)=""Debug|x64" Label="LinkIncremental">
 <LinkIncremental>true</LinkIncremental>
 </PropertyGroup>
 <PropertyGroup Condition=""$(Configuration)|$(Platform)=""Release|Win32" Label="LinkIncremental">
 <LinkIncremental>false</LinkIncremental>
 </PropertyGroup>
 <PropertyGroup Condition=""$(Configuration)|$(Platform)=""Release|x64" Label="LinkIncremental">
 <LinkIncremental>false</LinkIncremental>
 </PropertyGroup>
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Certificate:
Data:
Version: 3 (0x2)
Serial Number: 0 (0x0)
Signature Algorithm: sha1WithRSAEncryption
Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
Validity
Not Before: Feb 12 14:44:00 2011 GMT
Not After : Feb 12 14:44:00 2021 GMT
Subject: C=NL, O=PolarSSL, CN=PolarSSL Test CA

Subject Public Key Info:
Public Key Algorithm: rsaEncryption
RSA Public Key: (2048 bit)
Modulus (2048 bit):
00:e0:df:37:fc:17:bb:e0:96:9d:3f:86:de:96:32:
71:f1:bd:83:d9:3f:6a:5e:2c:3c:2a:8f:ef:27:60:
a2:d5
Exponent: 65537 (0x10001)

X509v3 extensions:
X509v3 Basic Constraints:
CA:TRUE

X509v3 Subject Key Identifier:

X509v3 Authority Key Identifier:

DirName:/C=NL/O=PolarSSL/CN=PolarSSL Test CA

Signature Algorithm: sha1WithRSAEncryption
<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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            <Platform>x64</Platform>
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            <Platform>Win32</Platform>
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            <Platform>x64</Platform>
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            <Platform>Win32</Platform>
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            <Configuration>Release</Configuration>
            <Platform>x64</Platform>
        </ProjectConfiguration>
    </ItemGroup>
</Project>
<Project>
  <propertyGroup label="Globals">
    <ProjectGuid>{CFA36CC7-515C-4E18-8F8F-5B56AB903352}</ProjectGuid>
    <Keyword>Win32Proj</Keyword>
    <RootNamespace>gen_random_havege</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 condition="$(Configuration)|$(Platform) == Debug\x64" label="PropertySheets">
  </ImportGroup>
  <ImportGroup condition="$(Configuration)|$(Platform) == Release\Win32" label="PropertySheets">
  </ImportGroup>
</Project>
N = A1D46FBA2318F8DCEEF16C280948B1CF27966B9B47225ED2989F8D74B45BD36049C0AAB5AD0FF003553BA843C8E12782FCS873BBB9A3D8C4B8B83D25666CD22BF3ACD58B675969F88EBFBCAC9F3DD927C742B178B10D1DF939E52316AA0AE0AF74E594650BDC3C670241D418684593CDA1A7B9DC4F20D2FDC6F66344074003E211
E = 010001
D = 589552BB4F2F023ADD5586D0C8FD85751282080436678D07F984A299D231F1F7000FC5A39A0F73EE2D885E47249A148C8A5653E6F9F18F8F736BA9F84841C2D99CD8C24DE8B72B5CB9E0EDBE23F93D731749FEEA9CFBF4A48DD2B7F35A2703E74A2AD4B7DE9CCEA7D763AF0ADA7AC176C4E9A22C4CAD65CEC0C65964401
P = CD083568D246C44C40C1FA0101AF2155E59C70B08423121A0F012051BBA5210765E29FF130365F6C749589D80C8F8C3BAEE2839BACB80B867F6A29656F60DB1
Q = CA0EEE5E710E8E9811A6B846399420E3AE4A1C6647E426DFF8BBBCB11C1D3F35CE2EB6BCAD07AE2C0E2ECBFCC601B207CDD77B5673E16382B1130BF465261
DP = 0DDE21C07BF434B4A83B116472C2147A11D8EB89A33CFBBBCF1D275EF19D81594122435AAF3839B6C432CA53CE977C2FBE1923A937A766FD93E96E6DE31DF1
DQ = 269C6E6305DFEE4809377F078C814E7B45AE6677114DFC4F76F5097E1F3031D592567AC55B9B98213B40ECD54AD2361F5FAACA1B1F51F71E4690893C4F081
QP = 97AC5BB885ABCA314375E9E4DB1BA4B2218C90619F6B1DB474F5785075ECA81750A735199A8C191FE2FD3355E7CF601A70E5C4ABDE0E02C538BB9FB4871540B3C1
RSAES-OAEP Encryption Test Vector Int
pkcs1_rsaes_oaep_encrypt:1024:16:"bbf82f090682ce9c2338ac2b9da871f7368d07eed41043a4406bf07454f51f8dbfaaf350c2ab61ea48ceeb66fcfd4876ed520d601ec46197191d8a5b8b807fa8e0a3d3fc77323eeeb4b7d93a2584ee6a649d06095374883432454598394ee0a2eb1d7b61a51f5279a941f6c1687fe2537298ca2a8f594f8e5f0d91dbcb":16:"11";POLARSSL_MD_SHA1:"d436e99569fd32a7ca8ab05bbe90932e49":aaff12f659cae63489b479e5076dec2f06cb58f1":1253ce0dc0a5397bb44a7ab79e92a039a33d1e996fc82a94ec3d0074c95d76372201706e95268da5d1c0b4f872cf653c11df82314a67968df8ee28def04bb6d84b1c31d654a1970e5783bd6e96a024e2ca2f4a90fe92ef5ec9c140e5b48a9536ad8700c84f9130adea74e558d51a74dd8598b0de96893d6063e0955":0

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RSAES-OAEP Encryption Test Vector 1.4

pkcs1_rsaes_oaep_encrypt:1024:16:"a8b3b284af8eb50b380734a4691f19317636c65598c8ae4811a1e0abc4c7e0b082d93a5e7fced675cf46685127720c0b6c64a742c6630f533e8cc72f62ae833403f52482e984bb78db979fc0107d55b0b662f5c4e0fa9b845cb5148ef7392d3aaf9f3ae1e666767bd3424716df5b10d4df226ede839ff16b":16:"010001":"POLARSSL_MD_SHA1:"52e650d98e7f2a0448bf86851253b097fd01d316f346a19f67fa85:"c43453e3a1e18a68b6280436290a37cfe85d3b":16:"04ed4ca551e66c29800f1aac8283b0525e6abae304be4baba762fa40fd3d38e22abecf699746ebbc0c0d1b1612247d42f1df080af87ec3ead888813646f0048e87582049c3736d82395627222dd8771fe4c8b83a31ee6f592c4cfd4b88174f3b13a12aas3b97f80e0cf6f7255b8a880dc7d0821e22ada6a85f075":0

RSAES-OAEP Encryption Test Vector 1.5

pkcs1_rsaes_oaep_encrypt:1024:16:"a8b3b284af8eb50b380734a4691f19317636c65598c8ae4811a1e0abc4c7e0b082d93a5e7fced675cf46685127720c0b6c64a742c6630f533e8cc72f62ae833403f52482e984bb78db979fc0107d55b0b662f5c4e0fa9b845cb5148ef7392d3aaf9f3ae1e666767bd3424716df5b10d4df226ede839ff16b":16:"010001":"POLARSSL_MD_SHA1:"8da89fd9e5f974a29feffb462b318c42df3e083fa2125a747ed5e425a3b5":16:"366e34d94a8d34d4acaa33a2139d00ad85a9345a86051e7307162005b6920e219005855a21a0f23897c6d373145257c777fe9082022ef0d05836b124eae0cf539a05d510329aadae1e303076d0cd644efc20f9d419013d4f343e1c7c6dd188e1f2df7f643d662bf9df37ad9059190f4fa663ca9e8694c4e49bc4edc439":0

RSAES-OAEP Encryption Test Vector 1.6

pkcs1_rsaes_oaep_encrypt:1024:16:"a8b3b284af8eb50b380734a4691f19317636c65598c8ae4811a1e0abc4c7e0b082d93a5e7fced675cf46685127720c0b6c64a742c6630f533e8cc72f62ae833403f52482e984bb78db979fc0107d55b0b662f5c4e0fa9b845cb5148ef7392d3aaf9f3ae1e666767bd3424716df5b10d4df226ede839ff16b":16:"010001":"POLARSSL_MD_SHA1:"26521050844271:"e4ec0982c2336f3a677f6a356174eb08878ebe2:8c2ee2617b1ee4ac4b3f4829386bf61dafb038e180837c96366f24097b4ab0fae6bf5d09821e9f016e8218d1a05b86b7388cf4643e6a0f974e0ad3d06b0757de7b5f5636fd7803b9059ca761b5c62bb52aa4500ea7baace08dd243b98dcb62a6ade2c56832b56654e43a6fa4ed1949a099769742df1539e8255":0

RSAES-OAEP Encryption Test Vector 2.1

pkcs1_rsaes_oaep_encrypt:1025:16:"01947c77cfe90425f47279e70851f25d5e62316fe8a1df19371e3e628e260543e4901ef608f16cb08b1411902ade8daba7d1250e6cd636e944ec3722877c7c1d0a67f14b16945c0f379945a143e49a32d8e3670b739a1e199bcb23b43a600556c10f0baf991c1a07956b95a3f1526632d1d44a0620eda25e653e4002766f65":16:"010001":"POLARSSL_MD_SHA1:"8f00ca60650c7028306349a6c3d42652b85c8fd1925c0ec700ee7":8c407b5e2899e5095c358ce7939b4fe71b782":1018af8229f6b4db4d7992d9be198195992fc0143938db74d91398af04d4ad329a5b9d385560db532683c8b7da04eb12a2ed6aad4cf71c34ec9a891addc2df3456653aa6382e9ae5b94455257eb9305826b2b13c59e0210ff8abb5da0d0570932daef2d0901db729d0fecc055e07968ea540e81b04bcaefe720e":0

RSAES-OAEP Encryption Test Vector 2.2

pkcs1_rsaes_oaep_encrypt:1025:16:"01947c77cfe90425f47279e70851f25d5e62316fe8a1df19371e3e628e260543e4901ef608f16cb08b1411902ade8daba7d1250e6cd636e944ec3722877c7c1d0a67f14b16945c0f379945a143e49a32d8e3670b739a1e199bcb23b43a600556c10f0baf991c1a07956b95a3f1526632d1d44a0620eda25e653e4002766f65":16:"010001":"POLARSSL_MD_SHA1:"2d:"b600cfc3e2506df7f16768c910d3a8b003ee161d:1018759ffdf63b279241056231416a8aeaf2ac63a4b64f904ab82d64dfb161fe33011da749d4ab6e2fcd18129ce49277d8453112b492a22a48471b070993998e758861c4d3f6fd74991c4290d332c7a4ab3f7ea5ff3a07d497ce955ff0ffcc95006b62ed296810d
RSAES-OAEP Encryption Example 3_2
pkcs1_rsa_oaep_encrypt:1026:16:"02b58fec039a860700a4d7b6462f93e6cd491161idd74f4e810b40e3c1652006a5c277b2774c11305a4cbab5a78efa57e17a86d7a7f3a36f4c4b1d224922ece7c2d2d6a463232acce906d66ebe805b704b10729da6f833324ab5e6fd4a292cbfad33b4d33fa7a148c8397b56e3ac2d1203428777dcfa336ada706bd3db0f4c3e9":16:"010001":"POLARSSL_MD_SHA1":"4653caaf17196b01f52a7eb63a5ab21dc368ce43b50d82ec3781e04":"b4291d6657550848c156967c809f9aa66c4a0f70":"024db99c8702899be0783847863084941bf029d761987e83f97cb56f61fb88da72a50b37eabaf1187e494f5d3785b086f5d7622b51b889e80fe80baca2069d6ee01d829953fc459096ed985ea9798451e557e99abf8fe3d9ccf9096ebbf3e5255d3b4e1c6d2edc0f067a359ea86045ac47d5e165517ccaf47d4dbbe4bf5":0

RSAES-OAEP Encryption Example 3_3
pkcs1_rsa_oaep_encrypt:1026:16:"02b58fec039a860700a4d7b6462f93e6cd491161idd74f4e810b40e3c1652006a5c277b2774c11305a4cbab5a78efa57e17a86d7a7f3a36f4c4b1d224922ece7c2d2d6a463232acce906d66ebe805b704b10729da6f833324ab5e6fd4a292cbfad33b4d33fa7a148c8397b56e3ac2d1203428777dcfa336ada706bd3db0f4c3e9":16:"010001":"POLARSSL_MD_SHA1":"d94cd0e08fa404ed89":"ce8928f605958254008badd9794fadcd2fd1f65":"0239bce681032441528877d61c8bb82aa34c7971d5f84563618959797683844a8666473242bed7a0a80b3a8aaabf7b238f82e30958c202444e57043b9750d443d97c09cede3537d61844299960d7783ab59ce6dd96947d1e9a962ed2c0d05895c083f64ed5261d92b26785103934849900abf706818a6f6ce8aa3":0

RSAES-OAEP Encryption Example 3_4
pkcs1_rsa_oaep_encrypt:1026:16:"02b58fec039a860700a4d7b6462f93e6cd491161idd74f4e810b40e3c1652006a5c277b2774c11305a4cbab5a78efa57e17a86d7a7f3a36f4c4b1d224922ece7c2d2d6a463232acce906d66ebe805b704b10729da6f833324ab5e6fd4a292cbfad33b4d33fa7a148c8397b56e3ac2d1203428777dcfa336ada706bd3db0f4c3e9":16:"010001":"POLARSSL_MD_SHA1":"6cc641b6b616f69f3974dadd23a901284e1":"e6297f952d6814a7d83b090054888f19a5b9a":"02994e62af76f498bb1fdcc6f42857ca81f4373cb8f1caee6f025c3b1b24eb2ce8779113476648039d6e4939462920fac289506000ce0f32ed9c819bdec45c5bde0ce8887450190960b7c059f1cecb29b0b7f1d63d69d0f12ce5d8d3507c8ee7ae788dd83f126a61de100363aca48a7e914ae9f42ddfe943b09d9a":0

RSAES-OAEP Encryption Example 3_5
pkcs1_rsa_oaep_encrypt:1026:16:"02b58fec039a860700a4d7b6462f93e6cd491161idd74f4e810b40e3c1652006a5c277b2774c11305a4cbab5a78efa57e17a86d7a7f3a36f4c4b1d224922ece7c2d2d6a463232acce906d66ebe805b704b10729da6f833324ab5e6fd4a292cbfad33b4d33fa7a148c8397b56e3ac2d1203428777dcfa336ada706bd3db0f4c3e9":16:"010001":"POLARSSL_MD_SHA1":"df5151832b61f4f25891fb4172f328d2eddf8371ffcfdbe997939295730e69a18107cf6a8c87a3e66284a2d27":"0162042ff6969592a6167031811a239834ce638abf54f6cb899478122afef2e67f8ec5b18b0339805bdfbca5e46720b37c59cbfa942464c597ff532a19182154fd5e9b114616da1f7182069f9029c5f24954327c34ce5e65f5ab7ec4de943ab8ad4ed787b14543297f0db798a3a8f4d92f8274e2b2948aed62678ce8ee33e4c360":0

RSAES-OAEP Encryption Example 3_6
pkcs1_rsa_oaep_encrypt:1026:16:"02b58fec039a860700a4d7b6462f93e6cd491161idd74f4e810b40e3c1652006a5c277b2774c11305a4cbab5a78efa57e17a86d7a7f3a36f4c4b1d224922ece7c2d2d6a463232acce906d66ebe805b704b10729da6f833324ab5e6fd4a292cbfad33b4d33fa7a148c8397b56e3ac2d1203428777dcfa336ada706bd3db0f4c3e9":16:"010001":"POLARSSL_MD_SHA1":"3c3bad893c544a6d520a0223219188c8d504ba7a888b850903b85972eeaa18552e1134a7a6d098826254ff7ab672b3d8e3b58afeacde4ebaef":"f174779c5fd3ce07b0adcb7a36c959355cbfcbf0e":"00112051e75d649434e448705e43482d959cee0679900e3cec943daa490cb9619c3df04646632b93bdf3dbe707803264f034b3741f416e1a00763725e574744a0b9db38343f1df966fe2a26f6d8eba348bd46862c238ac07c37aaec785d1c7cea2f819fd91491797ed88e9ce5e43b781b0e0276e37c43ff9492d005730":0
RSAES-OAEP Encryption Example 4_1
pkcs1_rsa_oaep_encrypt:1027:16:"051240b6cc0004fa48d0134671c0f78c7c8dec3b3e2f25bc2564467339db38853d 06b85ea5b2de353bf4f2ac2e46bc97ae6ac9618d9537a5c8f553c1e357625991d6108dcd7885fb3a2541f533edcad94 8c835cd9b9ae9c1cf67262113d57dde4c5bea766bb5bb7d6e96cd07372e9685a6d75c9df239fa14870931b5f3b039": 16:"010001":POLARSSL_MD_SHA1:"f486609534ee434af0c6ca3f7e96276d455e3264c196f056f56ff613763c56d7 7fb344cd52bc9337f4d166e9069c5069c506a913c3907927d":1:"ca191e993de5f55f98203f6852896e95c5caca1":"04c1e 9614845e094152a2e18e5a3330c44e5efbcf4ae1688cb1689014c5784b1f9f80e4f5384e0111a135ca0d1e988a8ae 404634161deaae8344f60d696fe51514554529b39a34331ca3768180f7e0e15a5e5d8e8b1a516f6f87069f13f896935ced188 279a58ed13d07114277d75c6568607e0ab092fd803a232e4a8ee0b1a":0

RSAES-OAEP Encryption Example 4_2
pkcs1_rsa_oaep_encrypt:1027:16:"051240b6cc0004fa48d0134671c0f78c7c8dec3b3e2f25bc2564467339db38853d 06b85ea5b2de353bf4f2ac2e46bc97ae6ac9618d9537a5c8f553c1e357625991d6108dcd7885fb3a2541f533edcad94 8c835cd9b9ae9c1cf67262113d57dde4c5bea766bb5bb7d6e96cd07372e9685a6d75c9df239fa14870931b5f3b039": 16:"010001":POLARSSL_MD_SHA1:"bf6d42e701707b1d0206b0c8b45a1c7264af1ff2889219a82bde6979a96 b0d0136ed9578e9ada20f2ffcf13e43089d34198a1b6c6f306a99":"ad997fee7306ee7be760d60d5c2e72eacfd dd27":16:"0301f935e9c47a5cbe44aha809895d9f5971af4839d4a4f95417ee453dd1f7719072b7297e1b55d7561cd9 d1bb24a19a37c619864308242804879d86ed01dce5183975e15069989b7e5a58343154d5cb6d4a24b787e06b0e65 8d2ac193302d1192ce6622d4a12add4b59323ca426df31c63595e37702e67a8ae018bf9d065":0

RSAES-OAEP Encryption Example 4_3
pkcs1_rsa_oaep_encrypt:1027:16:"051240b6cc0004fa48d0134671c0f78c7c8dec3b3e2f25bc2564467339db38853d 06b85ea5b2de353bf4f2ac2e46bc97ae6ac9618d9537a5c8f553c1e357625991d6108dcd7885fb3a2541f533edcad94 8c835cd9b9ae9c1cf67262113d57dde4c5bea766bb5bb7d6e96cd07372e9685a6d75c9df239fa14870931b5f3b039": 16:"010001":POLARSSL_MD_SHA1:"fb2ef1125e766eb9401929793479497fe2f6fc158e":"136454df57307c80 7a7e40d8c1a312a5c59dd":16:"02d11a030af7b7277beb691dd0ef17d0a1e77af0c40ee1a41a4ba2642c59d0a796e22ce 8f357cc98b6519aceb682e945e62cb734614a529407cd4525bee3e44afece8423ce19e55548b8b994b849c7eac4d3e 937e36 037e1d0ce44275b0887106ce430130b6929730ed77e09b015642c5593f04efb9410798102a8e96f6de11e":4

RSAES-OAEP Encryption Example 4_4
pkcs1_rsa_oaep_encrypt:1027:16:"051240b6cc0004fa48d0134671c0f78c7c8dec3b3e2f25bc2564467339db38853d 06b85ea5b2de353bf4f2ac2e46bc97ae6ac9618d9537a5c8f553c1e357625991d6108dcd7885fb3a2541f533edcad94 8c835cd9b9ae9c1cf67262113d57dde4c5bea766bb5bb7d6e96cd07372e9685a6d75c9df239fa14870931b5f3b039": 16:"010001":POLARSSL_MD_SHA1:"82c635c9db99ae9c1c676262113d57dde4c5bea766bb5bb7d6e96cd07372e9685a6d75c9df239fa14870931b5f3b039": 16:"010001":POLARSSL_MD_SHA1:1:"28cd4477b9e85166dadb9e57b1d1adac4b9df39204e96d5e400ce9d288c1c2284":"bca8057f8242bae257f2861407eef63d3208681":16:"0db8b7a84739d90efd919a377c5f4ae8e11ce58c3b853862 e23ad1b84a4310799066b99347aa525691d2ad5d8b9d66e34f288e1703909c5f0e1c0aa3654595f18ee79ef82be1d7ac5 c23d061f18dd74b85f2af5fcb5eb0c5f499f0f1a832475682925365338340487a8e9c7c4a61e98d1e29dc320e97a2605
RSAES-OAP Encryption Example 4_6
pkcs1_rsaes_oaep_encrypt:1027:16:051204b6cc0004fa48d0134671708c78dec0cb3e252f252654467339db38853d06b85eaa5b2ed353bfb4a2ce2666f79496198d9537a5e8f553e3c357625991d6108dd7885fba3a25413f53ecfad948c35d9bbae9c1e67626d11357d744c5b7ad6796b5ad79ec00d07372e9685a6d75cf9d239fa14870931b5f3fb039:16:"000001":POLARSSL_MD_SHA1:"f22a227416c661":2e7e17674f5dd033e154729f068f12f3ac4e:"00a5ff4a7688cb88e2ee599593535452051835b07ad9493de31e7cde6e65f67674241902084d2e3d83a0bfe066086c84049503b223a4078c3b2287a49d2f36764e7f97b61e55200233d2b51b8cb22703a9d424bfc825096ec32c051e57f1b4a5b28db89ec3e454ce276e64ac69365aee887d9541619a:0

RSAES-OAP Encryption Example 5_1
pkcs1_rsaes_oaep_encrypt:1028:16:"0aadf3f9c125e5d891f31ac4489e3defe580f802459d7f22ba5021e9c4757b5a1e68031ba9db6e66bade4961d16f3d267268cc8400805f11f8ecfadb9889888dc134467166b2a2b849a05a889c060ac0da0c5fae8b5ff5309ba62e703742fa03262fd10b010012489f9477700190d895df3d952283c39ef73a698bda9f10ed9:16:"000101":POLARSSL_MD_SHA1:"af71a901e3a6132f0f1fdd4749ea6579257ffe24d164170145bd3bd8e:"44e92e28377b9499c603d963660ce87d29939461:"030646a4a47d9ed3ba9819139105038eb792b05a5d688fd3cface6f59771a6865b1a7ba462467927e485ee7db5f64620cb89097e5606eac21522d5df799792b0fc117b99257b5a3b1263146baca03385c5e58359a101e8c3e1bda31a5190874964cb5e5efb4808823a52588fa0661b6664efadd593deb99ff5ed000e50

RSAES-OAP Encryption Example 5_2
pkcs1_rsaes_oaep_encrypt:1028:16:"0aadf3f9c125e5d891f31ac4489e3defe580f802459d7f22ba5021e9c4757b5a1e68031ba9db6e66bade4961d16f3d267268cc8400805f11f8ecfadb9889888dc134467166b2a2b849a05a889c060ac0da0c5fae8b5ff5309ba62e703742fa03262fd10b010012489f9477700190d895df3d952283c39ef73a698bda9f10ed9:16:"000101":POLARSSL_MD_SHA1:"a3b844a08239a8ac41605af17a66ca4d35013613585903a417a79267680519a4b4ac3303ec7f3087f7cb32399:"cb285f860695fcee49c3eaeefc625a7003bd32:"03d6eb654edcc615b59f455256ed4e5a18223cb9be40469b473b4803d4d59ef5d4caaaa063d094c9d44a01470dcd225406667c7b61f6ff6670703215c51399fd4e34ec5082bc480889840ad04354aa66d0cf1bd18e461a33c128db44a283736d26759a2302334986873808ec9cd53be9996052dca97da7b0915a4a7ad:0

RSAES-OAP Encryption Example 5_3
pkcs1_rsaes_oaep_encrypt:1028:16:"0aadf3f9c125e5d891f31ac4489e3defe580f802459d7f22ba5021e9c4757b5a1e68031ba9db6e66bade4961d16f3d267268cc8400805f11f8ecfadb9889888dc134467166b2a2b849a05a889c060ac0da0c5fae8b5ff5309ba62e703742fa03262fd10b010012489f9477700190d895df3d952283c39ef73a698bda9f10ed9:16:"000101":POLARSSL_MD_SHA1:"308b0ecbd2c76cb777476f70c5edd233fd2f0929d629f026953bb6a2af43a314bde195de85b5f816da2aab074d2eb6aaddf323a3eb9c678ace3ef12bdde7:"2285f40d77040829a9efa27eb23bb5ac557dd0c0c15a7709251816499f9f07ff62f6f3a22c35c6422439d05d456a9df0bf43ac2ca79af554e947889acc3ac8388b02040fddf3e1847de2e4253929fdd9deee444325a9b50cabb08b08ee40d3e15d105a3f17f7267951a07a2d37fe08eaca3e9c9d4d5a98ff90d54727d7ae40c0ec1a8d86165d8ee2c6368141016a485b5b6967:0

RSAES-OAP Encryption Example 5_4
pkcs1_rsaes_oaep_encrypt:1028:16:"0aadf3f9c125e5d891f31ac4489e3defe580f802459d7f22ba5021e9c4757b5a1e68031ba9db6e66bade4961d16f3d267268cc8400805f11f8ecfadb9889888dc134467166b2a2b849a05a889c060ac0da0c5fae8b5ff5309ba62e703742fa03262fd10b010012489f9477700190d895df3d952283c39ef73a698bda9f10ed9:16:"000101":POLARSSL_MD_SHA1:"15c5b9ee1185":"49fa45d3a7ed8fd5d7739916eb0af7eed5531:"0812bf76768ebcb642d0425b8e5f441a018521bd966876ec5e899fcd6c17588ff59a82ec8ae03ad4b53129aaf1788c3297dcd285f8cfc4ed82606b97612671a5bcedca133424414d1617d114f8028570f9d379751c57af39ee4090126c1e26992be031a
Open Source Used In HyperFlex HX Data Platform 5.0(2a)  7023

**RSAES-OAEP Encryption Example 5_5**

pkcs1_rsaes_oaep_encrypt:1028:16:"0aadf3f9c125e5d89f131ac448e993def580/802b45f9d7f22ba5021e9c475765b
a1e68031ba9db4e6d4ad4e9d6d3d267268cf408005f118efcadb998888d1c2344671662a2b849a05a889c060ac0da
05fae8b55f309b9a62e703742fa0326f2d100110214899f497770190895f9d35f2293c3e9fdef73a698bda9f10ed9":"1001001":POLARSSL_MD_SHA1:"21026e6800c7fa728caaba0d1996ae28d7a2a44fd8a8ece79f40985f60e8a673727
7365d3feaf1d8923a0209a:"0287413234c5034724a094c5486887af1133fc":"07b6e14e495bd29e60d0047e789
f15d7178c635899030367939edcf3b6241734529a2ab6a6379492e190163e3a33697e19f6661faada47ae66bde5e51
deb507c72e5892a2ca16939d6b14603812498b2c9d9ea4c4769f2489c5d3df99f0ee3c7ee5b6f4a5ac794c2bd343f149be
8cb59548361640595513c97af7bce2509723":"0"
RSAES-OAEP Encryption Example 6_4

pkcs1_rsaes_oaep_encrypt:1029:16:"12b17f6dad2eced19ff46dc13f7860f09e00cfd6767b38a52592305ceaf022c166db90d40ac29e33f7fd121d9fa96fe08116bb6ed8267c7d464c1c737be214bca2a22d72a3a4e444074376b6f6965729aafec2554f736cd5dceac68293780a62bf39d0029485a160bb9e95dc0972d21a50f45f2e5ee028a4a16332f510b2e9cffe5f722af":16:
"010001"::POLARSSL_MD_SHA1:"384e3038c5c041f7e43bbc3bd637dfe12846901029f5b6b0c71013439e":"008e7a67ca7e5c4e24be7ec1de14911f79598e8e458808f88e608ff99e0e96925639a3ca04db8bae925389e6a442b8535629c6d5823747497a13f3a9974b7242f975e9a85e5a8ca18940a0162ba758576df2d63f4bd50c6525c56090267c1f0e9ce0899a0fc359e88120abd9bf893445b3cae777d3607359e9a525f8":0

RSAES-OAEP Encryption Example 6_5

pkcs1_rsaes_oaep_encrypt:1029:16:"12b17f6dad2ecd19ff46dc13f7860f09e00cfd6767b38a52592305ceaf022c166db90d40ac29e33f7fd121d9fa96fe08116bb6ed8267c7d464c1c737be214bca2a22d72a3a4e444074376b6f6965729aafec2554f736cd5dceac68293780a62bf39d0029485a160bb9e95dc0972d21a50f45f2e5ee028a4a16332f510b2e9cffe5f722af":16:
"010001"::POLARSSL_MD_SHA1:"32488cb262d041d6e4dd35f987bf3ca696db10f6a09a469e":"0003474416c76b68d9f61c3857377944df1f40cbb93543ce693cc084fe6b3531fedfeaeac9c0687b31d3e20977489514e40f9085f6298a965301aa0404f5828ee887be26a5e575b73eeef7f774921e375a3d19adda0ca31aa1849887e1f42acac9677f7a2f4e923f6e5a86883b8c084ef187594dc9f70f48eae20295538ab":0

RSAES-OAEP Encryption Example 6_6

pkcs1_rsaes_oaep_encrypt:1029:16:"12b17f6dad2ecd19ff46dc13f7860f09e00cfd6767b38a52592305ceaf022c166db90d40ac29e33f7fd121d9fa96fe08116bb6ed8267c7d464c1c737be214bca2a22d72a3a4e444074376b6f6965729aafec2554f736cd5dceac68293780a62bf39d0029485a160bb9e95dc0972d21a50f45f2e5ee028a4a16332f510b2e9cffe5f722af":16:
"010001"::POLARSSL_MD_SHA1:"50ba14be8462720279e0a2403312a41e3d52f060fbc13a67de5c7f609a7":"0a026dada5fc88758f7db9f75327bb63e85e2c0fdeee5adb65ebdca9ae1de95c92672ab433a7e86e99e6a6d8897fac4ac4a54de841a5e5b8cee7688797947634e7a30684065c714d52409b98256bbf53ebabcd5231eb7259504537399bd29164b726d33a46da7a0136a091c0cbb7244a62fed246c0ffe5ab51348af5470":0

RSAES-OAEP Encryption Example 7_1

pkcs1_rsaes_oaep_encrypt:1030:16:"311179f0bcfc9b9d3ca315d00e307d7bd3a2caf9e911bfedebc948b3a47820d732b6ab44aa4bfb303741a644dc01be3c6e9bb01a033e675d8adc7e4c925c6b1aee3c119015dfd89762d15d4545fcb59908148623f71771756fae868d7ac7af543dce1e19f08254508a284a5f060021793a87f1ac5f77deca6ee9e5e1a3789e373":16:
"01ae9909":"439d09a07ff44cc71caca4632e5e1c1dace4ed8":"1688e4ce7794ab6c7b014169edc559eede2a30b56a52b8d89fe18cf1973ef79b2a03153951c7556f294a49adb55854ab6875fb939ec93cef927962840d282f9e54e8e690970c0eb8b6d73440d9571db16cd9260f9eeab4783cc48e25223d6097381783ec27bbe0f4d47732cbc826a1736c92b004ba6b8624647cd93e85c":0

RSAES-OAEP Encryption Example 7_2

pkcs1_rsaes_oaep_encrypt:1030:16:"311179f0bcf9b9d3ca315d00e307d7bd3a2caf9e911bfedebc948b3a47820d732b6ab44aa4bfb303741a644dc01be3c6e9bb01a033e675d8adc7e4c925c6b1aee3c119015dfd89762d15d4545fcb59908148623f71771756fae868d7ac7af543dce1e19f08254508a284a5f060021793a87f1ac5f77deca6ee9e5e1a3789e373":16:
"010001"::POLARSSL_MD_SHA1:"47aa9e909":"439d09a07ff44cc71caca4632e5e1c1dace4ed8":"1688e4ce7794ab6c7b014169edc559eede2a30b56a52b8d89fe18cf1973ef79b2a03153951c7556f294a49adb55854ab6875fb939ec93cef927962840d282f9e54e8e690970c0eb8b6d73440d9571db16cd9260f9eeab4783cc48e25223d6097381783ec27bbe0f4d47732cbc826a1736c92b004ba6b8624647cd93e85c":0
RSAES-OAEP Encryption Example 8_3
pkcs1_rsaes_oaep_encrypt:1031:16:"5bdf0e30d321dda5147f882408fa69159480df880d3f6ee8bf581504f36427ca9b1f55409bc65af6f974cf8447a244d9292021bb49cb6e6738d1944cd227e230f96e3d10f81919dee27c6c4aa0b2ab6701e7d01de5fabde3b1e9a0d8f24633539cd22669667fbb1171264134ed7b497cffe8db42b59c73a96ed90166212df7":16:"010001";POLARSSL_MD_SHA1:"fdda5fbf6ec361a9d9a4ac68a2f16a0686f438b1e0e5c36b9557fe1e07ff39e0dddc";"990aad573c448a193723556bd2b543618fe955105d":"2e456847d863b30147d69935949937227d577752c79d0f904fb3094d812feaf605a7b5744d82c8e6f9375234838ee9f55459485d05e1699e3e7ad1753ae1503deb042ab9f9e1d9dd1bb86f8c0493c45e7ef0ce5ee7ca9b72951306150ef37e08de62447c17006362d6ef6966fb416fb3e684383fbd0":0

RSAES-OAEP Encryption Example 8_4
pkcs1_rsaes_oaep_encrypt:1031:16:"5bdf0e30d321dda5147f882408fa69159480df880d3f6ee8bf581504f36427ca9b1f55409bc65af6f974cf8447a244d9292021bb49cb6e6738d1944cd227e230f96e3d10f81919dee27c6c4aa0b2ab6701e7d01de5fabde3b1e9a0d8f24633539cd22669667fbb1171264134ed7b497cffe8db42b59c73a96ed90166212df7":16:"010001";POLARSSL_MD_SHA1:"4b89130a5b2dabb72c9f90eb5d00af6e681b7146a38f3173a3d9fcee5a2e9a1933648a96934450d673f51a03c95762131e8052254ddc2248cba40fd31667786ce05a2ab7b351aaed9e5d8a59b677c1a8ead8c5d15d68c05569e2bc780bf7db638f2bd2f5a5b26786f0377733831a989fffd74313ee0e0ca9893f":0

RSAES-OAEP Encryption Example 8_5
pkcs1_rsaes_oaep_encrypt:1031:16:"5bdf0e30d321dda5147f882408fa69159480df880d3f6ee8bf581504f36427ca9b1f55409bc65af6f974cf8447a244d9292021bb49cb6e6738d1944cd227e230f96e3d10f81919dee27c6c4aa0b2ab6701e7d01de5fabde3b1e9a0d8f24633539cd22669667fbb1171264134ed7b497cffe8db42b59c73a96ed90166212df7":16:"010001";POLARSSL_MD_SHA1:"4a5f914be25d2ec3d69314de07":"ecc63b28f075fe2f125ae86ec6ee1251a6e304718":"1fb936f3d45b1769db2e7fd039d38a8100d16154dfec2e741f794938005ed2ac21ele8abbecc46b54b94c3b18b30dd576c34dc953e6f57a09415645923539a5d7b417e22e4670f1bb229d36039e9f1f6671b7d97f7e731e97734476df53d7121cf82b5ba9ff3d5e2858d36984d1b5558468d2b3ce875f3268953f7b2":0

RSAES-OAEP Encryption Example 8_6
pkcs1_rsaes_oaep_encrypt:1031:16:"5bdf0e30d321dda5147f882408fa69159480df880d3f6ee8bf581504f36427ca9b1f55409bc65af6f974cf8447a244d9292021bb49cb6e6738d1944cd227e230f96e3d10f81919dee27c6c4aa0b2ab6701e7d01de5fabde3b1e9a0d8f24633539cd22669667fbb1171264134ed7b497cffe8db42b59c73a96ed90166212df7":16:"010001";POLARSSL_MD_SHA1:"8e07d66f7b880a27562ab3dc53f5092b33c409b7f882472e":"3925c71b562d40a0a66e42145579ba17d4549f":"3af9c6600147b2798d9818c65af0f49212d2ebd60f0ddca725794e9c3b2df5f1d7ce3112cd737cd509e7a8baafedd3c274ad1399009f9609ec4be6477e453f075aa33db382870c1c3409ae392d7368ae3a696b99a94b4ad0589447e955d16c98b1760a59b7d367279fcedf8bb280c4462d590fba9f1f3edf70eafde7930a2ce210":0

RSAES-OAEP Encryption Example 9_1
pkcs1_rsaes_oaep_encrypt:1531:16:"cf2cd41e34ca3a728ea5cb8aff64c362d72bef53646336fd68d3123ca5196a8c287
RSAES-OAEP Encryption Example 10_3
pkcs1_rsaes_oaep_encrypt:2048:16:

pkcs1_rsaes_oaep_encrypt:2048:16:

RSAES-OAEP Encryption Example 10_4
pkcs1_rsaes_oaep_encrypt:2048:16:

pkcs1_rsaes_oaep_encrypt:2048:16:

RSAES-OAEP Encryption Example 10_5
pkcs1_rsaes_oaep_encrypt:2048:16:

pkcs1_rsaes_oaep_encrypt:2048:16:

RSAES-OAEP Encryption Example 10_6
pkcs1_rsaes_oaep_encrypt:2048:16:

pkcs1_rsaes_oaep_encrypt:2048:16:

pkcs1_rsaes_oaep_encrypt:2048:16:

pkcs1_rsaes_oaep_encrypt:2048:16:

pkcs1_rsaes_oaep_encrypt:2048:16:

pkcs1_rsaes_oaep_encrypt:2048:16:

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57754dbf4bfea5216aa1844dc507cb2d080e722eba150308c2b5ff1193620f1766ecf4481bafb943bd292877f2136ca49
4aba0":0
RSAES-OAEP Encryption Example 10_6
pkcs1_rsaes_oaep_encrypt:2048:16:"ae45ed5601cec6b8cc05f803935c674ddbe0d75c4c09fd7951fc6b0caec313a8df3
9970c518bffba5ed68f3f0d7f22a4029d413f1ae07e4ebe9e4177ce23e7f5404b569e4ee1bdcf3c1fb03ef113802d4f855e
b9b5134b5a7c8085adcae6fa2fa1417ec3763be171b0c62b760ede23c12ad92b980884c641f5a8fac26bdad4a03381a22
fe1b754885094c82506d4019a535a286afeb271bb9ba592de18dcf600c2aeeae56e02f7cf79fc14cf3bdc7cd84febbbf950
ca90304b2219a7aa063aefa2c3c1980e560cd64afe779585b6107657b957857efde6010988ab7de417fc88d8f384c4e6e
72c3f943e0c31c0c4a5cc36f879d8a3ac9d7d59860eaada6b83bb":16:"010001":POLARSSL_MD_SHA1:"eaf1a73a1b
0c4609537de69cd9228bbcfb9a8ca8c6c3efaf056fe4a7f4634ed00b7c39ec6922d7b8ea2c04ebac":"9f47ddf42e97eea8
56a9bdbc714eb3ac22f6eb32":"2d207a73432a8fb4c03051b3f73b28a61764098dfa34c47a20995f8115aa6816679b55
7e82dbee584908c6e69782d7deb34dbd65af063d57fca76a5fd069492fd6068d9984d209350565a62e5c77f23038c12c
b10c6634709b547c46f6b4a709bd85ca122d74465ef97762c29763e06dbc7a9e738c78bfca0102dc5e79d65b973f2824
0caab2e161a78b57d262457ed8195d53e3c7ae9da021883c6db7c24afdd2322eac972ad3c354c5fcef1e146c3a0290fb6
7adf007066e00428d2cec18ce58f9328698defef4b2eb5ec76918fde1c198cbb38b7afc67626a9aefec4322bfd90d25634
81c9a221f78c8272c82d1b62ab914e1c69f6af6ef30ca5260db4a46":0
RSAES-OAEP Decryption Test Vector Int
pkcs1_rsaes_oaep_decrypt:1024:16:"eecfae81b1b9b3c908810b10a1b5600199eb9f44aef4fda493b81a9e3d84f63212
4ef0236e5d1e3b7e28fae7aa040a2d5b252176459d1f397541ba2a58fb6599":16:"c97fb1f027f453f6341233eaaad1d93
53f6c42d08866b1d05a0f2035028b9d869840b41666b42e92ea0da3b43204b5cfce3352524d0416a5a441e700af46150
3":16:"bbf82f090682ce9c2338ac2b9da871f7368d07eed41043a440d6b6f07454f51fb8dfbaaf035c02ab61ea48ceeb6f
cd4876ed520d60e1ec4619719d8a5b8b807fafb8e0a3dfc737723ee6b4b7d93a2584ee6a649d060953748834b2454598
394ee0aab12d7b61a51f527a9a41f6c1687fe2537298ca2a8f5946f8e5fd091dbdcb":16:"11":POLARSSL_MD_SHA1:
"d436e99569fd32a7c8a05bbc90d32c49":"aafd12f659cae63489b479e5076ddec2f06cb58f":"1253e04dc0a5397bb44a
7ab87e9bf2a039a33d1e996fc82a94ccd30074c95df763722017069e5268da5d1c0b4f872cf653c11df82314a67968dfe
ae28def04bb6d84b1c31d654a1970e5783bd6eb96a024c2ca2f4a90fe9f2ef5c9c140e5bb48da9536ad8700c84fc9130ad
ea74e558d51a74ddf85d8b50de96838d6063e0955":0
RSAES-OAEP Decryption Test Vector 1_1
pkcs1_rsaes_oaep_decrypt:1024:16:"d32737e7267ffe1341b2d5c0d150a81b586fb3132bed2f8d5262864a9cb9f30af3
8be448598d413a172efb802c21acf1c11c520c2f26a471dcad212eac7ca39d":16:"cc8853d1d54da630fac004f471f281c
7b8982d8224a490edbeb33d3e3d5cc93c4765703d1dd791642f1f116a0dd852be2419b2af72bfe9a030e860b0288b5d7
7":16:"a8b3b284af8eb50b387034a860f146c4919f318763cd6c5598c8ae4811a1e0abc4c7e0b082d693a5e7fced675cf
4668512772c0cbc64a742c6c630f533c8cc72f62ae833c40bf25842e984bb78bdbf97c0107d55bdb662f5c4e0fab9845c
b5148ef7392dd3aaff93ae1e6b667bb3d4247616d4f5ba10d4cfd226de88d39f16fb":16:"010001":POLARSSL_MD_S
HA1:"6628194e12073db03ba94cda9ef9532397d50dba79b987004afefe34":"18b776ea21069d69776a33e96bad48e1
dda0a5ef":"354fe67b4a126d5d35fe36c777791a3f7ba13def484e2d3908aff722fad468fb21696de95d0be911c2d3174f
8afcc201035f7b6d8e69402de5451618c21a535fa9d7bfc5b8dd9fc243f8cf927db31322d6e881eaa91a996170e657a05a
266426d98c88003f8477c1227094a0d9fa1e8c4024309ce1ecccb5210035d47ac72e8a":0
RSAES-OAEP Decryption Test Vector 1_2
pkcs1_rsaes_oaep_decrypt:1024:16:"d32737e7267ffe1341b2d5c0d150a81b586fb3132bed2f8d5262864a9cb9f30af3
8be448598d413a172efb802c21acf1c11c520c2f26a471dcad212eac7ca39d":16:"cc8853d1d54da630fac004f471f281c
7b8982d8224a490edbeb33d3e3d5cc93c4765703d1dd791642f1f116a0dd852be2419b2af72bfe9a030e860b0288b5d7
7":16:"a8b3b284af8eb50b387034a860f146c4919f318763cd6c5598c8ae4811a1e0abc4c7e0b082d693a5e7fced675cf
4668512772c0cbc64a742c6c630f533c8cc72f62ae833c40bf25842e984bb78bdbf97c0107d55bdb662f5c4e0fab9845c

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RSAES-OAEP Decryption Example 4_4
pkcs1_rsaes_oaep_decrypt:1027:16:"027458c19ec1636919e736c9af25d609a51bf8561d19c66bf6943dd1ee1ab8a4a3f232100bd40b88dec66a235548b6e6f792a11c9e823d0a7922c7095b6eba5701":16:"0210ee9b33ab61716e27d251bd465f4b35a1a232ed2a009010c29b422350c40d9099f642b5756126d3ba1f20386492b0f404db3cb22e9b09d13441b35b5139":"051240b6c00048d48d0134617c078c7dc8e3be2f25bc2564467339db38853d06b85eaa5bde353bf
f42ac2e466ca9f6aae9618da9537ae85f553c1e357625919d108dc7885bf3a2541353efe4ac98bc35d9b9ae9c1e676261d113d57d4edc5bea76b5bb7d9e600007372e96856af75e9d239f1a48d70931b5f3b039":16:"010001":POLAR
SSL_MD_SHA1:"035584bb8894b9497ce4d9336703e1d0ce4a275b08710c68e430130b929730ed77e09b015642c5593ff04ffbf9410798120a8e96ffdefe11e4":0

RSAES-OAEP Decryption Example 4_5
pkcs1_rsaes_oaep_decrypt:1027:16:"027458c19ec1636919e736c9af25d609a51bf8561d19c66bf6943dd1ee1ab8a4a3f232100bd40b88dec66a235548b6e6f792a11c9e823d0a7922c7095b6eba5701":16:"0210ee9b33ab61716e27d251bd465f4b35a1a232ed2a009010c29b422350c40d9099f642b5756126d3ba1f20386492b0f404db3cb22e9b09d13441b35b5139":"051240b6c00048d48d0134617c078c7dc8e3be2f25bc2564467339db38853d06b85eaa5bde353bf
f42ac2e466ca9f6aae9618da9537ae85f553c1e357625919d108dc7885bf3a2541353efe4ac98bc35d9b9ae9c1e676261d113d57d4edc5bea76b5bb7d9e600007372e96856af75e9d239f1a48d70931b5f3b039":16:"010001":POLAR
SSL_MD_SHA1:"f2224275f2861407efee63d33208681":0"00dbb8a7439d90ef9d19a377c5f4ae8fe11ec58c3b858362e23ad1b8a4431037098699347aaa2569192a3ad89b06e342f88c17039095f0e11c1aa3645959f18ee79f8b2e87dace23d0611f7d748b5f2a58fcb5eb0c5f49ff01fa832475682925358330498d7a8e9c74ace98d129ed320e79a260532aa7a58a1ec2":0

RSAES-OAEP Decryption Example 4_6
pkcs1_rsaes_oaep_decrypt:1027:16:"027458c19ec1636919e736c9af25d609a51bf8561d19c66bf6943dd1ee1ab8a4a3f232100bd40b88dec66a235548b6e6f792a11c9e823d0a7922c7095b6eba5701":16:"0210ee9b33ab61716e27d251bd465f4b35a1a232ed2a009010c29b422350c40d9099f642b5756126d3ba1f20386492b0f404db3cb22e9b09d13441b35b5139":"051240b6c00048d48d0134617c078c7dc8e3be2f25bc2564467339db38853d06b85eaa5bde353bf
f42ac2e466ca9f6aae9618da9537ae85f553c1e357625919d108dc7885bf3a2541353efe4ac98bc35d9b9ae9c1e676261d113d57d4edc5bea76b5bb7d9e600007372e96856af75e9d239f1a48d70931b5f3b039":16:"010001":POLAR
SSL_MD_SHA1:"036046a4a47d90ef9d19a377c5f4ae8fe11ec58c3b858362e23ad1b8a4431037098699347aaa2569192a3ad89b06e342f88c17039095f0e11c1aa3645959f18ee79f8b2e87dace23d0611f7d748b5f2a58fcb5eb0c5f49ff01fa832475682925358330498d7a8e9c74ace98d129ed320e79a260532aa7a58a1ec2":0

RSAES-OAEP Decryption Example 5_1
pkcs1_rsaes_oaep_decrypt:1028:16:"027458c19ec1636919e736c9af25d609a51bf8561d19c66bf6943dd1ee1ab8a4a3f232100bd40b88dec66a235548b6e6f792a11c9e823d0a7922c7095b6eba5701":16:"0210ee9b33ab61716e27d251bd465f4b35a1a232ed2a009010c29b422350c40d9099f642b5756126d3ba1f20386492b0f404db3cb22e9b09d13441b35b5139":"051240b6c00048d48d0134617c078c7dc8e3be2f25bc2564467339db38853d06b85eaa5bde353bf
f42ac2e466ca9f6aae9618da9537ae85f553c1e357625919d108dc7885bf3a2541353efe4ac98bc35d9b9ae9c1e676261d113d57d4edc5bea76b5bb7d9e600007372e96856af75e9d239f1a48d70931b5f3b039":16:"010001":POLAR
SSL_MD_SHA1:"af71a901e3a63a4436063f82385f489937":0"00a5f4f7468cbbeecade23b7e8f2e9b9959533545520835e5b7db9493d317cdedefaa5f67624471908db42de28a0b6ec60608fe84049503b23234a07dcb832b722847ad78920ff42f674e797976280bo02332d3b1b8cb2703a9d42bfc8c250362e2csc05e157f1b4b528db89c37e4c5e427e6646ac96935ae887d954169a9":0
RSAES-OAEP Decryption Example 5_6
pkcs1_rsaes_oaep_decrypt:1028:16:"03b0d3962f6d17549cbfca11294348dcf0e7e398c2bc6824f2164b660d687860d ae1632393efed51322822906e2f60e4acde7e63a346036f32835f84993707":16:"02e43e2e2f172697b70230900c 03e1365f7e2c8823b689212f239af10b6604b0928e355345c52d6a05397de5c052a2fd6e14f17198936346ae b331":16:"0aadf3f9e125e5d8913fa448e9933e5e9f80820459df7f22ba50219e4c745765b5a1e6031ba9db4e6dabe4 d9e6a1d6f6d2672686c4f8008051f118e6acdb998881d2c34467166b2a2b849a0a5889c0600ac0a5eae8b5f3090aa2e70 3742fa3026fa10b011021499f4977701909df59d3f2399339edf73a998dbad9b9f01e9d":16:"010001":POLARSSL_M D_SHA1:"541e37b68b6c8872b84c02d9fba45c96f21e6e26d2b864eb585b9e3cb4":0
RSAES-OAEP Decryption Example 6_1
pkcs1_rsaes_oaep_decrypt:1029:16:"04a6ce8b78358dbfa96bd7c4f72617005afb3585f53a58a24ef74a2a28c05cb7c38e bd44ce9d9a7d89a62c0d600f0cb941d343c3692e4a430af290c4749a38b":16:"0404ca803373f1edbc4b3ce39f93ab00 09e0e8a8636e140035c5ac0a107c1cf77e0c8be9f991f0f17c0d0a4b7fbedfd2563aca946db797db4cade8829f499el d":16:"12b176fdad2ec19ff46dc137860f90e0ecfb7677b38a52592305ceaff022c166db90d04ac9e3377d129d9a1f66e 0816bb63e0a2d67c7d46c17373be21bca2a22b723a64e4440743666c465729ae2fc2554f37ced5c1e8a283708a6b2f3 9d002948a160bbbe9e5c09d720d1f8052ee5e028aa1433251f052ee9c1ff5f722af":16:"010001":POLARSSL_MD_S HA1:"4046ca8ba3347a27f49e0f1a71db9ea1571d179":0
RSAES-OAEP Decryption Example 6_2
pkcs1_rsaes_oaep_decrypt:1029:16:"04a6ce8b78358dbfa96bd7c4f72617005afb3585f53a58a24ef74a2a28c05cb7c38e bd44ce9d9a7d89a62c0d600f0cb941d343c3692e4a430af290c4749a38b":16:"0404ca803373f1edbc4b3ce39f93ab00 09e0e8a8636e140035c5ac0a107c1cf77e0c8be9f991f0f17c0d0a4b7fbedfd2563aca946db797db4cade8829f499el d":16:"12b176fdad2ec19ff46dc137860f90e0ecfb7677b38a52592305ceaff022c166db90d04ac9e3377d129d9a1f66e 0816bb63e0a2d67c7d46c17373be21bca2a22b723a64e4440743666c465729ae2fc2554f37ced5c1e8a283708a6b2f3 9d002948a160bbbe9e5c09d720d1f8052ee5e028aa1433251f052ee9c1ff5f722af":16:"010001":POLARSSL_MD_S HA1:"5cc72c60231df03b3d40f9b5793109f972527f28b19e74087c89eb3c92b2252124e4b6c1947922dbaf 57f8aae8":0
RSAES-OAEP Decryption Example 6_3
pkcs1_rsaes_oaep_decrypt:1029:16:"04a6ce8b78358dbfa96bd7c4f72617005afb3585f53a58a24ef74a2a28c05cb7c38e bd44ce9d9a7d89a62c0d600f0cb941d343c3692e4a430af290c4749a38b":16:"0404ca803373f1edbc4b3ce39f93ab00 09e0e8a8636e140035c5ac0a107c1cf77e0c8be9f991f0f17c0d0a4b7fbedfd2563aca946db797db4cade8829f499el d":16:"12b176fdad2ec19ff46dc137860f90e0ecfb7677b38a52592305ceaff022c166db90d04ac9e3377d129d9a1f66e 0816bb63e0a2d67c7d46c17373be21bca2a22b723a64e4440743666c465729ae2fc2554f37ced5c1e8a283708a6b2f3 9d002948a160bbbe9e5c09d720d1f8052ee5e028aa1433251f052ee9c1ff5f722af":16:"010001":POLARSSL_MD_S HA1:"7c52c60231df03b3d40f9b5793109f972527f28b19e74087c89eb3c92b2252124e4b6c1947922dbaf 57f8aae8":0
RSAES-OAEP Decryption Example 6_4
pkcs1_rsaes_oaep_decrypt:1029:16:"04a6ce8b78358dbfa96bd7c4f72617005afb3585f53a58a24ef74a2a28c05cb7c38e bd44ce9d9a7d89a62c0d600f0cb941d343c3692e4a430af290c4749a38b":16:"0404ca803373f1edbc4b3ce39f93ab00 09e0e8a8636e140035c5ac0a107c1cf77e0c8be9f991f0f17c0d0a4b7fbedfd2563aca946db797db4cade8829f499el d":16:"12b176fdad2ec19ff46dc137860f90e0ecfb7677b38a52592305ceaff022c166db90d04ac9e3377d129d9a1f66e 0816bb63e0a2d67c7d46c17373be21bca2a22b723a64e4440743666c465729ae2fc2554f37ced5c1e8a283708a6b2f3 9d002948a160bbbe9e5c09d720d1f8052ee5e028aa1433251f052ee9c1ff5f722af":16:"010001":POLARSSL_MD_S HA1:"7c52c60231df03b3d40f9b5793109f972527f28b19e74087c89eb3c92b2252124e4b6c1947922dbaf 57f8aae8":0
RSAES-OAEP Decryption Example 9_5

pkcs1_rsaes_oaep_decrypt:1536:16:"fc8d6c04bec4eb9a8192ca7900cb5362e2b8519de3cb32b457998c6909df4f176
db7d23190fc7288b665a718a8f895f1bcb9d145298027423b60570a47cf58390a8c3e88f8c8e8b832e3da210dbfe3e881e
a5674b6a348ae21e93f9e55e665ef6:16;"d2004d5e788aaca60a6a04d10460f87dd5c1027e12d1a0d7586e8939d9c7f8
9b4f051ac04a292616:df6a3e16:16:8cfdfccddaa29823e2595feee:16;"cfe2d4134ca32a78ea58b8affe64e36d27bfdef536e336fd683d132c3a196ea
8c28701e853d5156d8151954520b4fdfd717ab6817765909c576119569d092b1906ed8a2b10c155c24125428
d9e3ee97b690dbc1d08a0eb071e5e869d11ffe39597693035e5e6a54059c8e680d446ff0f8108522055738c08a67ead991262254f1068795c65397768537f4997f8a6d56aacedefb7f25dec937232031fd8978afa9119af29f2e42abab82724b7562972d5e9477488b8b2d0dbd918ac9ed9735745df524e9d5c29759e18b1d61b40fa16f136e424221
c11adbd2756664e801d3c48a6351e4a88588c7;"53e6e8c7292d69c319dd317e4b0dbd84e3cc25f38305746e137a6a36e3f397e9b59bb699e6d5545f7b14ab4133378ff9b1111;"fcb4214029e6acbc6082af40ba5126522e408e;"232afbe9292fa08c6fa278b77d4a5e09c07de26fafa737d390588389f4f6d28b887e734be237ba1b666968d829106a7d6e942de6c6e78fd8e2d8e1428e669490d36264cef92af9413d3e53055fe3981e141d29
cb99a4f67470363bce79a1179f51517c9c1832328387fd5e59bb69595d65ce8a019edefb13acc9679cc6ca7a78ff6a0a64c764d5f200a621026e03de538e31637b89971fb8c0e15d44fffe89b53d8d64dd797d159b96d2b08ea5307ea12c241bd58d4e278a1f2e:0

RSAES-OAEP Decryption Example 9_6

pkcs1_rsaes_oaep_decrypt:1536:16:"fc8d6c04bec4eb9a8192ca7900cb5362e2b8519de3cb32b457998c6909df4f176
db7d23190fc7288b665a718a8f895f1bcb9d145298027423b60570a47cf58390a8c3e88f8c8e8b832e3da210dbfe3e881e
a5674b6a348ae21e93f9e55e665ef6:16;"d2004d5e788aaca60a6a04d10460f87dd5c1027e12d1a0d7586e8939d9c7f8
9b4f051ac04a292616:df6a3e16:16:8cfdfccddaa29823e2595feee:16;"cfe2d4134ca32a78ea58b8affe64e36d27bfdef536e336fd683d132c3a196ea
8c28701e853d5156d8151954520b4fdfd717ab6817765909c576119569d092b1906ed8a2b10c155c24125428
d9e3ee97b690dbc1d08a0eb071e5e869d11ffe39597693035e5e6a54059c8e680d446ff0f8108522055738c08a67ead991262254f1068795c65397768537f4997f8a6d56aacedefb7f25dec937232031fd8978afa9119af29f2e42abab82724b7562972d5e9477488b8b2d0dbd918ac9ed9735745df524e9d5c29759e18b1d61b40fa16f136e424221
c11adbd2756664e801d3c48a6351e4a88588c7;"b6b28ea2198d9c01006a1740eb2d5c82faeca6d92fcee9931ba9f:0
RSAES-OAEP Decryption Example 10_4

pkcs1_rsaes_oaep_decrypt:2048:16:"ecf5aecd1e5515fffacbd75a2816c6ebf49018cdfb4638e185d67a3966b68909f8018c7fd955c34b857dc170c6516b1346ab4d582caedad7b41033532387870338d0840479d59396b4962042dbd6a4
42499207bec019614287f61363c9384658338646f566e56818810123327167bf5a96ed67c80868aa77dce769:1"6:"bc4646466ac7a83b80e3b481772f77d02298b58add888ae5e1a06c1e685a80fb25ac9999950f58e1562499
29ba1175cdd71992703151849926b9c276b76e02cabe142835f7d148cc161524ba409964d48b828473f1ce76b6c68b
63c345c03e05f41d51b6c3a03f240737d7a4f4ec25d9f2c17597f06f36386138:16:"ae45ed6016ce6b8c8805f83995
cdf74dbed756c9f7516c6bf0ca313a8df1868801897bfedf722a40291431fa07e4ebe9417c7ec2ce7f5404b569e4e1bcdf3c1b03e113802d4f585eb95b3154ba7c0885adaec6fa2a1417ec3763be1710b6276oed2c31
2ad92b980884c6f15a8fac26b6dad4a03381a22fe1b754885094c82506d4019a535a286afeb27b199ba592de18dcfe600
c2aeeaf56e027fc799c14f3bdc7d84febhbff950ca9304042219a7a063aef2a3c1980e56c6d4afe7795856b1670576b9
5787efed6010988ab7de417fc88d8f384e6e7c23f943e03c10c4a5cc36f879d8a3ac97d59960eaa68b3b:16:"01001":POLARSSL_MD_SHA1:"510a2cf60666fa2430553c9e49a39fbc2563118e839454b4124:11385714deec
7c740dd8c9daee4a91chfd54:9886c36764a8b9a4e84148ebd8c3b1aa805038a178f668714c164d9ceda65975
9c5359d7e3b4bb85c18a8e829899237171147221695d9d99d19937e47bf4dff848a4d62506f7d65398ac967b
1ce9902957f65c9049bf712b0742799a7d44defe7be0a37a3feafec5e4c0f88a855d0db3e25b67a29543f8c19b
9b1d1a61b2a2b2566c099bd7d0c17717ea25c43f4ed2ed7f8738bf4a6c67ff7afa085955ee283920f4ea63c4a7340c
bafddc33eccdb4b5010052f96932b576916af6999aad3cfe0df04e85a870262bfe21e30fb4b858059878e76ff7969d48e
abf212271546c05a69e6cb52e5827038e3f079780e4de:0";

RSAES-OAEP Decryption Example 10_5

pkcs1_rsaes_oaep_decrypt:2048:16:"ecf5aecd1e5515fffacbd75a27a2816ce6bf49018cdfb4638e185d67a3966b68909f8018c7fd955c34b857dc170c6516b1346ab4d582caedad7b41033532387870338d0840479d59396b4962042dbd6a4
42499207bec019614287f61363c9384658338646f566e56818810123327167bf5a96ed67c80868aa77dce769:1"6:"bc4646466ac7a83b80e3b481772f77d02298b58add888ae5e1a06c1e685a80fb25ac9999950f58e1562499
29ba1175cdd71992703151849926b9c276b76e02cabe142835f7d148cc161524ba409964d48b828473f1ce76b6c68b
63c345c03e05f41d51b6c3a03f240737d7a4f4ec25d9f2c17597f06f36386138:16:"ae45ed6016ce6b8c8805f83995
cdf74dbed756c9f7516c6bf0ca313a8df1868801897bfedf722a40291431fa07e4ebe9417c7ec2ce7f5404b569e4e1bcdf3c1b03e113802d4f585eb95b3154ba7c0885adaec6fa2a1417ec3763be1710b6276oed2c31
2ad92b980884c6f15a8fac26b6dad4a03381a22fe1b754885094c82506d4019a535a286afeb27b199ba592de18dcfe600
c2aeeaf56e027fc799c14f3bdc7d84febhbff950ca9304042219a7a063aef2a3c1980e56c6d4afe7795856b1670576b9
5787efed6010988ab7de417fc88d8f384e6e7c23f943e03c10c4a5cc36f879d8a3ac97d59960eaa68b3b:16:"01001":POLARSSL_MD_SHA1:"a7dd6c7dc24b469df5df1e9ada4c3b3d947e877232af:9"5bca9e3589954b3dd869fa7ed5bb6401bf3e:4:"75290872ccfd4a450566d0651f566da6da09ca1301d896326fa929df565cee464adfed0ed35be9356714eea5a7655f6a1366c2f17c728f6f2c5a5df18e28429bc4ef8f2cc8fda8d0ce0a99808e45fd09ea2a40cb
RSAES-OAEP Decryption Example 10_6
pks1_rsaaes_oaep_decrypt:2048:16:0=ecf5aecd1e5515fffacbd75a287b7d1f016e2048a15d6679c2b3b74a3c0d9d284a04f85fd14768b0eaf02f16f04b21b1f0f77597603cf63861383":16:"ae45ed5601ce6b8cc05f83935c6746db0e757c409fd791f5c6b0ca313a8d5f9970c5185b8fba9ed6f88f0d7f22a4029df41f3fa07e4ebe94e177ce23e7f5404bf6956e4e1b1dfcfe3b03e1f11138024d8f55eb9b53154b5a7e8085adacea6fa2a1417ec736b6e7b02676edec2e312ad9f9828886c4f6158afac26b6dada40338122ae1b7f4885094c8256d0419a535a28a6fbeb721b9b592a1d8c600c2aeae5602f7cf79f14c4fbcde7cd84e6bfbbf99509a3004b2219a7a063acefa2c3c1980e560cd64a777585b61067567b957875e66010988ab7e4171c8883f48e46e7e2f3943e30c13c4a5cc6f58979a3e9c7d59860ead6683":16:"010001:"POLARSSL_MD_SHA1:"eaf1a73a1b0c4609537de69cd9228bbcfb9a8ca8c6fca3e5b06af4a7f4634ed06007c9ee692d7b8ea2c0ebac":"9fd47def42e97eaa856a9dbdcb714e3ac2f26eb32":16:"2d207a73432a8fb4c03051bf337b28a6176409846f3a47e2a0995618a66769b5755e872bdee58406e8697927dee3b4dd6ff506df56ca76a5f6d6904992f6d608984d90493506f5a0c25771320312e106c665097454e6f6a7090bd8724d47e987762976306d0c7a9e79387c884b1a020c7e5d9b73f28240caabb2e161a78b5d262457ed8195d53c3e7ae9a0d21883cedb7ca4fadd232ae297a2d3c3545ec5f1e146c6203b967ad070040d20cece1858f9382b6888def4f2eb796781fdefc19e8bb3b87af6c4322bfdf9d503481c82a1f878c2728d1b262ba914e1c9f6af6e30ca5260db4a46":16
RSASSA-PSS Signing Test Vector Int
pks1_rsassapss_sign:1024:16:"d1765b5f27c8b16d354626905cc04a26f37e2a67fa9c0e0cdecd477392a0df743ce7f929e37bfdb368edd45f3ef007a69480ade577371f8a7117c2876fb":16:"c6d2b6f6ee74141358ce1546f62987530b90bd15ef019403a526356ab693474ec01b2a1b76f8da03af192b22f757463a98245b7b97a3a43c7b58d60f31f6":16:"a2b4a00ce073e3b2b9a020f22c7f16997b15424846e49c19c4b11bbd49bba982b00577c2eeafada0d83a7665e659c6494d4bc3e50a1e8afada27db2a42b0c00e88b89b12245d50c76b739736e1995b5220dd174aad04904c102e12b4d477222a9151024c7b414c5e2a1d00ebe4f17c80834d2e606b3ce7ae9a5":16:"010001:"SIG_RSA_SHA1:POLARSSL_MD_SHA1:"859efef2d78aca030308bdc471193bf55b9d78db8a672a4843439c2e6626478a10e2006ddc800e183b7a76ca75d5d05435f4477e547178fe9e04d73793c6bbedae487b5f55d4ca74f77a753cb729802f6ed4a5ffaf8a1b989090":16:"e3b5d5d0201cbe50c2b65fe8b8a188d3bce7e61":8"78ad1273de759563056c7e6c59e54406f16010128bae218c82b2a0ff936d54d3bcbe46869f67b751b18e84054276979185715201d85ebf5969190232c4e2be4c829972c856275eb65a45f505187676cf743
d:

RSASSA-PSS Verification Test Vector Int
pks1_rsassapss_verify:1024:16:"a2b4a00ce073e3b2b9a020f22c7f16997b15424846e49c19c4b11bbd49bba982b00577c2eeafada0d83a7665e659c6494d4bc3e50a1e8afada27db2a42b0c00e88b89b12245d50c76b739736e1995b5220dd174aad04904c102e12b4d477222a9151024c7b414c5e2a1d00ebe4f17c80834d2e606b3ce7ae9a5":16:"010001:"SIG_RSA_SHA1:POLARSSL_MD_SHA1:"859efef2d78aca030308bdc471193bf55b9d78db8a672a4843439c2e6626478a10e2006ddc800e183b7a76ca75d5d05435f4477e547178fe9e04d73793c6bbedae487b5f55d4ca74f77a753cb729802f6ed4a5ffaf8a1b989090":16:"e3b5d5d0201cbe50c2b65fe8b8a188d3bce7e61":8"78ad1273de759563056c7e6c59e54406f16010128bae218c82b2a0ff936d54d3bcbe46869f67b751b18e84054276979185715201d85ebf5969190232c4e2be4c829972c856275eb65a45f505187676cf743

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deddd28caec9bb30ea99e02c3488269604fe497f74ccd7c7fca1671897123cbd30def5d54a2b5536ad90a747e":0
RSASSA-PSS Signing Test Vector Hash too large
pkcs1_rsassa_pss_sign:1024:16:"d17f655bf27c8b16d35462c905cc04a26f37e2a67fa9c0ce0dced472394a0df743fe7f
929e378efdb368eddff453cf007af6d948e0ade757371f8a711e278f6b":16:"c6d92b6fee7414d1358ce1546fb62987530
b90bd15e0f14963a5e2635adb69347ec0c01b2ab1763fd8ac1a592fb22757463a982425bb97a3a437c5bf86d03f2f":16:
"a2ba40ee07e3b2bd2f02ce227f36a195024486e49c19cb41bbbdfbba98b22b0e577c2eeaffa20d883a76e65e394c69d4
b3c05a1e8fadda27edb2a42bc000fe888b9b32c22d15add0cd76b3e7936e19955b220dd17d4ea904b1ec102b2e4de775
1222aa99151024c7cb41cc5ea21d00eeb41f7c800834d2c6e06bce3bce7ea9a5":16:"010001":SIG_RSA_SHA1:POLA
RSSL_MD_SHA512:"d436e99569fd32a7c8a05bbc90d32c49d436e99569fd32a7c8a05bbc90d32c49d436e99569fd3
2a7c8a05bbc90d32c49d436e99569fd32a7c8a05bbc90d32c49d436e99569fd32a7c8a05bbc90d32c49d436e99569fd0
0":"e3b5d5d002c1bce50c2b65ef88a188d83bce7e61":"":POLARSSL_ERR_RSA_BAD_INPUT_DATA
RSASSA-PSS Signature Example 1_1
pkcs1_rsassa_pss_sign:1024:16:"e7e8942720a877517273a356053ea2a1bc0c94aa72d55c6e86296b2dfc967948c0a7
2cbccca7eacb35706e09a1df55a1535bd9b3cc34160b3b6dcd3eda8e6443":16:"b69dca1cf7d4d7ec81e75b90fcca874a
bcde123fd2700180aa90479b6e48de8d67ed24f9f19d85ba275874f542cd20dc723e6963364a1f9425452b269a6799fd"
:16:"a56e4a0e701017589a5187dc7ea841d156f2ec0e36ad52a44dfeb1e61f7ad991d8c51056ffedb162b4c0f283a12a88
a394dff526ab7291cbb307ceabfce0b1dfd5cd9508096d5b2b8b6df5d671ef6377c0921cb23c270a70e2598e6ff89d19f1
05acc2d3f0cb35f29280e1386b6f64c4ef22e1e1f20d0ce8cffb2249bd9a2137":16:"010001":SIG_RSA_SHA1:POLAR
SSL_MD_SHA1:"cdc87da223d786df3b45e0bbbc721326d1ee2af806cc315475cc6f0d9c66e1b62371d45ce2392e1ac
92844c310102f156a0d8d52c1f4c40ba3aa65095786cb769757a6563ba958fed0bcc984e8b517a3d5f515b23b8a41e74
aa867693f90dfb061a6e86dfaaee64472c00e5f20945729cbebe77f06ce78e08f4098fba41f9d6193c0317e8b60d4b6084
acb42d29e3808a3bc372d85e331170fcbf7cc72d0b71c296648b3a4d10f416295d0807aa625cab2744fd9ea8fd223c425
37029828bd16be02546f130fd2e33b936d2676e08aed1b73318b750a0167d0":"dee959c7e06411361420ff80185ed57f
3e6776af":"9074308fb598e9701b2294388e52f971faac2b60a5145af185df5287b5ed2887e57ce7fd44dc8634e407c8e
0e4360bc226f3ec227f9d9e54638e8d31f5051215df6ebb9c2f9579aa77598a38f914b5b9c1bd83c4e2f9f382a0d0aa354
2ffee65984a601bc69eb28deb27dca12c82c2d4c3f66cd500f1ff2b994d8a4e30cbb33c":0
RSASSA-PSS Signature Example 1_1 (verify)
pkcs1_rsassa_pss_verify:1024:16:"a56e4a0e701017589a5187dc7ea841d156f2ec0e36ad52a44dfeb1e61f7ad991d8c5
1056ffedb162b4c0f283a12a88a394dff526ab7291cbb307ceabfce0b1dfd5cd9508096d5b2b8b6df5d671ef6377c0921c
b23c270a70e2598e6ff89d19f105acc2d3f0cb35f29280e1386b6f64c4ef22e1e1f20d0ce8cffb2249bd9a2137":16:"0100
01":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"cdc87da223d786df3b45e0bbbc721326d1ee2af806cc315475cc6f0d
9c66e1b62371d45ce2392e1ac92844c310102f156a0d8d52c1f4c40ba3aa65095786cb769757a6563ba958fed0bcc984
e8b517a3d5f515b23b8a41e74aa867693f90dfb061a6e86dfaaee64472c00e5f20945729cbebe77f06ce78e08f4098fba4
1f9d6193c0317e8b60d4b6084acb42d29e3808a3bc372d85e331170fcbf7cc72d0b71c296648b3a4d10f416295d0807a
a625cab2744fd9ea8fd223c42537029828bd16be02546f130fd2e33b936d2676e08aed1b73318b750a0167d0":"dee959
c7e06411361420ff80185ed57f3e6776af":"9074308fb598e9701b2294388e52f971faac2b60a5145af185df5287b5ed2
887e57ce7fd44dc8634e407c8e0e4360bc226f3ec227f9d9e54638e8d31f5051215df6ebb9c2f9579aa77598a38f914b5
b9c1bd83c4e2f9f382a0d0aa3542ffee65984a601bc69eb28deb27dca12c82c2d4c3f66cd500f1ff2b994d8a4e30cbb33c
":0
RSASSA-PSS Signature Example 1_2
pkcs1_rsassa_pss_sign:1024:16:"e7e8942720a877517273a356053ea2a1bc0c94aa72d55c6e86296b2dfc967948c0a7
2cbccca7eacb35706e09a1df55a1535bd9b3cc34160b3b6dcd3eda8e6443":16:"b69dca1cf7d4d7ec81e75b90fcca874a
bcde123fd2700180aa90479b6e48de8d67ed24f9f19d85ba275874f542cd20dc723e6963364a1f9425452b269a6799fd"
:16:"a56e4a0e701017589a5187dc7ea841d156f2ec0e36ad52a44dfeb1e61f7ad991d8c51056ffedb162b4c0f283a12a88

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RSASSA-PSS Signature Example 1_4
pkcs1_rsassa_pss_sign:1024:16:"a56e4a0e70101758a95187dc7e8a41d156f2ce0c36ad52a44defeb1e16b17a979d508096d5b2b86dfd561fe673c779c21bc2370a7e2598e6ff89d49f105acc2d3f0cb35f29280e1386b66f44e42e2e1e1f0dd0ce8cfb2249db9a2137":"16:010001"."SIG_RSA_SHA1:POLARSSL_MD_SHA1:"bc6567477a9ea9bf30"."056f00985de14d8ef5ee8928fc27ebf270335e"."4609793b2e9d0936dc21b1b7a0b4f3a76226249a4d64019b9aefae533598178c91cd58bafbc8b7e03o46a7bc637f4b873d4badb38ee661f199634c547a1a8424e03da015b13e6543f7ab07e0c13e4225b8de8ccee25d4f6eb84008f81f7e1833b7ee6334d370964ca79fd872b4d75223b5eeb08101591fb53d2155a6e87":0

RSASSA-PSS Signature Example 1_4 (verify)
pkcs1_rsassa_pss_verify:1024:16:"a56e4a0e70101758a95187dc7e8a41d156f2ce0c36ad52a44defeb1e16b17a979d508096d5b2b86dfd561fe673c779c21bc2370a7e2598e6ff89d49f105acc2d3f0cb35f29280e1386b66f44e42e2e1e1f0dd0ce8cfb2249db9a2137":"16:010001"."SIG_RSA_SHA1:POLARSSL_MD_SHA1:"bc6567477a9ea9bf30"."056f00985de14d8ef5ee8928fc27ebf270335e"."4609793b2e9d0936dc21b1b7a0b4f3a76226249a4d64019b9aefae533598178c91cd58bafbc8b7e03o46a7bc637f4b873d4badb38ee661f199634c547a1a8424e03da015b13e6543f7ab07e0c13e4225b8de8ccee25d4f6eb84008f81f7e1833b7ee6334d370964ca79fd872b4d75223b5eeb08101591fb53d2155a6e87":0

RSASSA-PSS Signature Example 1_5
pkcs1_rsassa_pss_sign:1024:16:"e7e8942720a8777517273a3560353ea2a1b2c0c94aa72d55c6e86296b2dfc969748c0a72ebccca7eacb35706e091df55a1535b9b3cc341603b63dcd3ed8e6443"."b69dca1cf7d47ec81e75b90fcca874a0bced1234d7207180aa094979b6e48d8e672ed24f9919d858a275785f47542cd20d723e693634a419425452b269a6799fd"."a56e4a0e70101758a95187dc7ea841d156f2ce0e36ad52a44defeb1e16b17a979d508096d5b2b86dfd561fe673c779c21bc2370a7e2598e6ff89d49f105acc2d3f0cb35f29280e1386b66f44e42e2e1e1f0dd0ce8cfb2249db9a2137:"16:010001"."SIG_RSA_SHA1:POLARSSL_MD_SHA1:"b455581547e542777706540e4a9e49c32594d6bf706544deoa08776c7a804874756681ee1b2acabce7e8b7d3e7f7bb503e462c11047aed00629a575480a1470fe04f613a2bf5af17921dc4b0a8b082be633491161517852510132b1533b3e5203d5d5595353a078238b3b94ba5046d1501c7707fddecc5be4a5f68be5a58c99d7edcccc4975455a69099b4"."80e70ff86a08de3ec609672b394b4bfdce6a7e8e"."1d2aad21ca4d31df13d1f1305290391938e3d14b32cd34d5a4f4aeae3ce095a734779ec0a4e5e5629635a3a018377615b16cb913b0e96777e8378b8545c5960daa46776768e82b2e93585bf014c3df623512d7b4e89633dd006350adb524b01c3f384c09310e315a79dcd3d684022af71c8c65a664e3c6978b7597fad":0

RSASSA-PSS Signature Example 1_5 (verify)
pkcs1_rsassa_pss_verify:1024:16:"a56e4a0e70101758a95187dc7ea841d156f2ce0e36ad52a44defeb1e16b17a979d508096d5b2b86dfd561fe673c779c21bc2370a7e2598e6ff89d49f105acc2d3f0cb35f29280e1386b66f44e42e2e1e1f0dd0ce8cfb2249db9a2137":16:010001."SIG_RSA_SHA1:POLARSSL_MD_SHA1:"b455581547e542777706540e4a9e49c32594d6bf706544deoa08776c7a804874756681ee1b2acabce7e8b7d3e7f7bb503e462c11047aed00629a575480a1470fe04f613a2bf5af17921dc4b0a8b082be633491161517852510132b1533b3e5203d5d5595353a078238b3b94ba5046d1501c7707fddecc5be4a5f68be5a58c99d7edcccc4975455a69099b4"."80e70ff86a08de3ec609672b394b4bfdce6a7e8e"."1d2aad21ca4d31df13d1f1305290391938e3d14b32cd34d5a4f4aeae3ce095a734779ec0a4e5e5629635a3a018377615b16cb913b0e96777e8378b8545c5960daa46776768e82b2e93585bf014c3df623512d7b4e89633dd006350adb524b01c3f384c09310e315a79dcd3d684022af71c8c65a664e3c6978b7597fad":0
RSASSA-PSS Signature Example 1_6

pkcs1_rsa_pass_sign:1024:16:7e8942720a877517273a35603ea2a1bc0c94a72d55c6e862962b2dfc967948c0a72cbecc7ea3b5530706991d55a1535bd93cc34160b36dbdc3ed3e86443":"1b:6b9ac1c74d7dc8e1e75b9f0cfa874abd123d7200180a904979b6e48d86ed7242f19id85ba27578547542c202dc72369363a4919425452b296a9799dfid:15e6e4a0fe01017589a5187dc7e8a41d56fc2e06ad52a44de1f6b1e117d99918c51056fe1b62bf4c0f283a12a88a394df526ab7291cb3caeb3cfe01bd5fc95098695db8b66df5d67fe63379c921b2c270a70e25986ff8919f105acc2df30cb35f29280e138666f64c4e1f2e11f0d0ce8cf8b22479d9a2137:16:010001".SIG_RSA_SHA1:POLARSSL_MD_SHA1:"10aae9a0ab0b595d0841207b70d4875faedde3b775c6b4c4e98a6e49747a1b8f8205d45e5ea69cbe7c2beba43e13fde10215ace4eb32dc30a1f53dce435226779c36cfebf7c8de67035784a9309fa59db7599b9e39c5c2349f18866705a302672d4f2f478ab4f586cada5d69dad17ab8edc0e1caffe0520af4e241bfbb8794607000c0a51ef29911311e3877d0044c71c57a99339500880627b2aca38373d93548188258e170537392205325910e935cd0fa77b8fa53c3ee2474ab3f3cc67266dfdd0a0900848712b4cbe46c60573659b11e64578ee6106f060b13d84f48ce42ed73a:"a8ab69dd801f0074a1fc60464936c361d699681:2a34f6125e1f6b0bbf971e84b632e8f2eace7de8b8962c01e59d95764c3dc0f0e8e1cebeb0f7568610ad3bf749e5f9f9b6dad46a0fde50436393153865f8e58e462f893aa278892543bc0ebeb537dce61958019bf394bf273f21585a0a1ac46d50b5956f76c58:0".RSASSA-PSS Signature Example 2_1

pkcs1_rsa_pass_verify:1024:16:a56e4a0e071017589a5187dc7e8a41d56fc2e06ad52a44de1f6b1e117d99918c51056fe1b62bf4c0f283a12a88a394df526ab7291cb3caeb3cfe01bd5fc95098695db8b66df5d67fe63379c921b2c270a70e25986ff8919f105acc2df30cb35f29280e138666f64c4e1f2e11f0d0ce8cf8b22479d9a2137:16:010001".SIG_RSA_SHA1:POLARSSL_MD_SHA1:10aae9a0ab0b595d0841207b70d4875faedde3b775c6b4c4e98a6e49747a1b8f8205d45e5ea69cbe7c2beba43e13fde10215ace4eb32dc30a1f53dce435226779c36cfebf7c8de67035784a9309fa59db7599b9e39c5c2349f18866705a302672d4f2f478ab4f586cada5d69dad17ab8edc0e1caffe0520af4e241bfbb8794607000c0a51ef29911311e3877d0044c71c57a99339500880627b2aca38373d93548188258e170537392205325910e935cd0fa77b8fa53c3ee2474ab3f3cc67266dfdd0a0900848712b4cbe46c60573659b11e64578ee6106f060b13d84f48ce42ed73a:"a8ab69dd801f0074a1fc60464936c361d699681:2a34f6125e1f6b0bbf971e84b632e8f2eace7de8b8962c01e59d95764c3dc0f0e8e1cebeb0f7568610ad3bf749e5f9f9b6dad46a0fde50436393153865f8e58e462f893aa278892543bc0ebeb537dce61958019bf394bf273f21585a0a1ac46d50b5956f76c58:0".RSASSA-PSS Signature Example 2_1 (verify)
Open Source Used In HyperFlex HX Data Platform 5.0(2a)  7052

10001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"daba03206623faed659848115278a52c4f8aa3a7f637f5155ed3ed3210272c4a09df953bc05041078a8df520875146aa7e0f060226dc7b11f1fc27e9360":"57bf160cbe02b1c1d728c0f0458530bd723823f7":"0145ba5338238cc6ce7a90bf1e0ab3fd606ffe47963c12e4b636ed9136a5fe6c6c6d8884bd99cfcde521456b0742b736868c9f0de099adb8d5ff1dfe3fbb9a4007ab746cfebdb22dfde225f54672dce546561317121b90af445363a83588bf067642f8faba00f43b716de6d4ae70d87828488e8ef1e421c5754ddf425c25898b3":0

RSASSA-PSS Signature Example 2.2

pkcs1_rsa_sassa_sign:1026:102601e926a0f8e9e26cab79e6a5a07c5c2c9e08ef0519457c644dad891c5a104d3e7955992a227c68a7a79fced7773cc329e3d63500c4e3403997eb97e9d1":16:"014eafa1d0d184fda7e311f877d1281d3da625664869e8379e67a3b75eae7a45808e9827abde6ba7a002cb5411f52667797768f8e95ae0e38a0f13f589ef56c07":16:"01d04e1bcf97a68ae7c7d8d8a7bfe34a19dcdcafe17f5a47543759f451d488fed006bf82f94819f8f78d63516d8a1ff3a993fe9ab43bb44011c103a99199c0fc7a87747de8298844fe40f8d5b15e5e9a4d59c8f8113bb634336ad2f2689b472cbb5e5cabe764350c596b1ce171687284fbb4f2f3c1d76a017ed6f1d36c6433c9":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"52a1d96c8ac93e1e45589081b0927a5ab445c10d9020adcd3850d22a6dbb0703e67d58b7114559ab5af5a7eb5af8ff73043bb301e3cf4d87a9be7632003260d0286a3fafa422827ece518079fe64526e3a0c7c941aa33c8347997c680ccac67666ba1":"f8a6206bace224627427b08a0f195da1764e6888c":16:"007f0030018f53cd71f3d3059fd654d4211758a750b42f185f875875820c30742af8d359b56e8e83e39d59cc6fe486bed8e2e0f163a7ab
RSASSA-PSS Signature Example 2_5 (verify)
pkcs1_rsa_sss_pss_verify:1025:16:01d40c1bcf97a68ae7c7dbd8a73f34a19dfcc4e75a47454375f94514d88fed006f
b282bf419f87d6315da68a1ff3af9389ea9af34d64011c303ad991999f0c7ca88b47dce82988844f625b115e5e9ca4a59cfe
8f813b68343336a2f2d689b472cb5e5acade674350c5b96c1e7176874fb42f8fed316a017edc6f1d326ce3b33c9:16:0
10001::SIG_RSA_SHA1:POLARSSL_MD_SHA1:"86a83d4a72ee932a4f5630af6579a386b7fe88999eadb2d9403
4aaf4bc854d94df1094e28ed07a179d19588e4aefc1b1bd2e953ed5416f1":17639ae88722e4fc4a2d079a89b2324333
b0":16:01e30a82931eb3db3aa3043d4ae898a8a66b88c30e16171c3c1cf182e0c374b19f1e1c8e9d65012045e79e9b7
378612d9cc85f6e12da1df950bd0ba8876740436c1d2595a64a1b32efc7b7a418c73b3cc3aa4fe3e4dc3953de6f7f0674c
0453b4fd9f6044064d441b816098cb106fe3472bc251f185f9db2e4378a3addc181ecf:0

RSASSA-PSS Signature Example 2_6 (verify)
pkcs1_rsa_sss_pss_verify:1025:16:01d40e1bcf97a68ae7c7dbd8a73f34a19dfcc4e75a47454375f94514d88fed006f
b282bf419f87d6315da68a1ff3af9389ea9af34d64011c303ad991999f0c7ca88b47dce82988844f625b115e5e9ca4a59cfe
8f813b68343336a2f2d689b472cb5e5acade674350c5b96c1e7176874fb42f8fed316a017edc6f1d326ce3b33c9:16:0
10001::SIG_RSA_SHA1:POLARSSL_MD_SHA1:"049f9154d871ac4a7c7ab45325ba7545a1ed087f05252b6267cf1":37810de8fe52b2b3
3df798de5d0aabf886ee::00475b1648f8184a0dc0dbd3c7b5527f543666b6be639d303e5b94d39876dccc85acce14e3a2
a55e26160144562df246fc8e3d5650a3df379a1c0b2d00f110221df078c219a151bc84d4ec9d2fc25646478611014ef15d
8ea01e2ebff88c2e8efab38096e55fcbec3285c7a558581254affa92c1c7b278785663ef458243139d7a6:0

RSASSA-PSS Signature Example 3_1 (verify)
pkcs1_rsa_sss_pss_verify:1026:16:01d40c1bcf97a68ae7c7dbd8a73f34a19dfcc4e75a47454375f94514d88fed006f
b282bf419f87d6315da68a1ff3af9389ea9af34d64011c303ad991999f0c7ca88b47dce82988844f625b115e5e9ca4a59cfe
8f813b68343336a2f2d689b472cb5e5acade674350c5b96c1e7176874fb42f8fed316a017edc6f1d326ce3b33c9:16:0
10001::SIG_RSA_SHA1:POLARSSL_MD_SHA1:"049f9154d871ac4a7c7ab45325ba7545a1ed087f05252b6267cf1":37810de8fe52b2b3
3df798de5d0aabf886ee::00475b1648f8184a0dc0dbd3c7b5527f543666b6be639d303e5b94d39876dccc85acce14e3a2
a55e26160144562df246fc8e3d5650a3df379a1c0b2d00f110221df078c219a151bc84d4ec9d2fc25646478611014ef15d
8ea01e2ebff88c2e8efab38096e55fcbec3285c7a558581254affa92c1c7b278785663ef458243139d7a6:0

RSASSA-PSS Signature Example 3_1
pkcs1_rsa_sss_pss_sign:1026:16:01d40c1bcf97a68ae7c7dbd8a73f34a19dfcc4e75a47454375f94514d88fed006f
b282bf419f87d6315da68a1ff3af9389ea9af34d64011c303ad991999f0c7ca88b47dce82988844f625b115e5e9ca4a59cfe
8f813b68343336a2f2d689b472cb5e5acade674350c5b96c1e7176874fb42f8fed316a017edc6f1d326ce3b33c9:16:0
10001::SIG_RSA_SHA1:POLARSSL_MD_SHA1:"594b37333bbb2c84524a87c1a01f75ecce3e3256f108e38da36d700d005":F31a0d8e88ce89d97fe87dd7eacbe2c8ff3b0ae0e4caaa":0088b135f1794b6b964a3e67819f78ca5c2e5b64e2909f7db7e6124964a09
a01a882740ecf6aed6c01a4746bbf5018231c0e13188a0cd97214ed8c6aa103bd573db39e8e16213616d76841826abf8a
01cf253e99a156eea8e3e1f90e3c6e4ea3a2d38ed30435b89fafe9c26077c14b6ae51454fa26e4e63a2f153b2b16797":0

RSASSA-PSS Signature Example 3_1 (verify)
RSASSA-PSS Signature Example 3_4

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RSASSA-PSS Signature Example 3_4

pkcs1_rsa_sass_pss_sign:1026:"01bd36e18ece4b0fdb2e9c9d548e1da7d6e21c266dc35074ad0d5b1c6e8b3d555eaa2639c9a421680169317252558bad148ad215aac550e2df12a82d0ebfe853":16:"01b1b656ad8d68e19d5dc6e82692b3a192fd6e0dd37877bad14822fa00190cab26f590f3df02057b65f4d6e6cb14491e5adeacbe4bf0ebd2a2ad26d0402f54f161":16:"02f246ef451ed3eeb9a310200cc258595048e4be798302991112be68ec6ed674e2802da21fedefe17a488e-ca32b18db249385012827c15f0e466a1fa961d98170574e9d0eadb087586ca48933da3c953d95bd6d050de10dcebd6376107dc831c7f663e833ca4c097e700ce0fb9f45f88bf5e8e5a773172565b914a471a443":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"8fb431f5ee792b6c2ac7db53cc428655eab32d03f4e889ec525de683c46b153ac89ff9f8d3aadbf6bf90c2a1de12b15b49ed3919a652fe9491c2a57fcejl1722c2534308b69dc375e":16:"0196f12a005fb918029e87d3c409d6fd388e5a773172565b914a471a443":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"396246ef451ed3eeb9a310200cc258595048e4be798302991112be68ec6ed674e2802da21fedefe17a488e-ca32b18db249385012827c15f0e466a1fa961d98170574e9d0eadb087586ca48933da3c953d95bd6d050de10dcebd6376107dc831c7f663e833ca4c097e700ce0fb9f45f88bf5e8e5a773172565b914a471a443":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"396246ef451ed3eeb9a310200cc258595048e4be798302991112be68ec6ed674e2802da21fedefe17a488e-ca32b18db249385012827c15f0e466a1fa961d98170574e9d0eadb087586ca48933da3c953d95bd6d050de10dcebd6376107dc831c7f663e833ca4c097e700ce0fb9f45f88bf5e8e5a773172565b914a471a443":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"fef4161fedaf9ec95295011d01f0f3810e8c9ce2c86f670754228ece42169e4f49427d483eae108c534a41b2d15ee6960ec6fb37a4ea428a2e3e4edbad2c6a3e6d307307982785920112be68ec6ed674e2802da21fedefe17a488e-ca32b18db249385012827c15f0e466a1fa961d98170574e9d0eadb087586ca48933da3c953d95bd6d050de10dcebd6376107dc831c7f663e833ca4c097e700ce0fb9f45f88bf5e8e5a773172565b914a471a443":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1":"f0705973266a524b4ad280f7ae17dc59d6335185685a3db895d1e1f7820ac6135d8735480998382ba32b734955960538745290a85efe499fb83:0"
```
RSASSA-PSS Signature Example 3_5 (verify)
pks1_rsa_kp_verify:1026:16:"02f246e4f51ed3eeeb9ba310200cc25859e0484e8be798302991112eb68ce6d6764e280da21feded1ae74880ca522b18db249380120827c5150f0466af1faa691d98170574e9d0eadb807586ec489333a3c953d95bd0ed50e10ddcb67361076dc831f7663e833ac4097e7000effb945f88f8b5fe8efa5773712565b9147a1443:16:"010001":RSK_RSA_SHA1:POLARSSL_MD_SHA1:"7b6a8163f7dd32c655bc255375549099672a6bce63ac4a88a094b754e84c1017e87a77723e13ba8109d9ed3f0496668f7d51376820857f21b406f264ce7f5e75c27d6524f5b45ed3575f28a702f8c4edc9f2b2d24484:0

RSASSA-PSS Signature Example 3_6
pkcs1_rsa_kp_sign:1026:16:"01bd36e18ece4b0fdb2e9c9d548bd1a7d649f3dbd35074a1d05b1d6e83d558a2639f9a9a421680169317252558bd148ad215ac550e2d1c2a82d0e6be853:16":011b656ad86de195ddec86292b3a192fd6e0dd73877bad1482f20a010190acab265f903f02057b6f54dec6eeb14491e5aeadebec4b8ff0eb2a2d26402e5f46151":16:"02f246e4f51ed3eeeb9ba310200cc25859e0484ebe798302991112eb68ce6d674e280da21feded1ae74880ca522b18db249380120827c5150f0466af1faa691d98170574e9d0eadb807586ec489333a3c953d95bd0ed50e10ddcb67361076dc831f7663e833ac4097e7000effb945f88f8b5fe8efa5773712565b9147a1443:16:"010001":RSK_RSA_SHA1:POLARSSL_MD_SHA1:"7b6a8163f7dd32c655bc255375549099672a6bce63ac4a88a094b754e84c1017e87a77723e13ba8109d9ed3f0496668f7d51376820857f21b406f264ce7f5e75c27d6524f5b45ed3575f28a702f8c4edc9f2b2d24484:0

RSASSA-PSS Signature Example 4_1
pkcs1_rsa_kp_sign:1026:16:"02f246e4f51ed3eeeb9ba310200cc25859e0484ebe798302991112eb68ce6d674e280da21feded1ae74880ca522b18db249380120827c5150f0466af1faa691d98170574e9d0eadb807586ec489333a3c953d95bd0ed50e10ddcb67361076dc831f7663e833ac4097e7000effb945f88f8b5fe8efa5773712565b9147a1443:16:"010001":RSK_RSA_SHA1:POLARSSL_MD_SHA1:"7b6a8163f7dd32c655bc255375549099672a6bce63ac4a88a094b754e84c1017e87a77723e13ba8109d9ed3f0496668f7d51376820857f21b406f264ce7f5e75c27d6524f5b45ed3575f28a702f8c4edc9f2b2d24484:0

RSASSA-PSS Signature Example 4_1 (verify)
pks1_rsa_kp_verify:1026:16:"02f246e4f51ed3eeeb9ba310200cc25859e0484ebe798302991112eb68ce6d674e280da21feded1ae74880ca522b18db249380120827c5150f0466af1faa691d98170574e9d0eadb807586ec489333a3c953d95bd0ed50e10ddcb67361076dc831f7663e833ac4097e7000effb945f88f8b5fe8efa5773712565b9147a1443:16:"010001":RSK_RSA_SHA1:POLARSSL_MD_SHA1:"7b6a8163f7dd32c655bc255375549099672a6bce63ac4a88a094b754e84c1017e87a77723e13ba8109d9ed3f0496668f7d51376820857f21b406f264ce7f5e75c27d6524f5b45ed3575f28a702f8c4edc9f2b2d24484:0

RSASSA-PSS Signature Example 4_1 (verify)
pks1_rsa_kp_verify:1026:16:"05ad87b8644f7efe6f57e0368f06cf52b0a3370760d161ce126b91be7f89e421b26abec1da3c1175ed50e0ab5fffd3f3d338acc3aa8ae477ee26369acb81a900afa83f5300cf96b6c53ad1c87e559e9d108e58c14a81aa775343994488c895940740b7e7c3f:16:"010001":RSK_RSA_SHA1:POLARSSL_MD_SHA1:"7b6a8163f7dd32c655bc255375549099672a6bce63ac4a88a094b754e84c1017e87a77723e13ba8109d9ed3f0496668f7d51376820857f21b406f264ce7f5e75c27d6524f5b45ed3575f28a702f8c4edc9f2b2d24484:0
RSASSA-PSS Signature Example 4_3 (verify)
pkcs1_rsassa_pss_verify:2027:16:"054adb7886447eef6f57e0368f06fc52b0a3370760d161ce126b91be7f89c421b62a6ec1da3c31175ed50e0abff5fd33dbb3aca8a4e77ee26369ac81ba0900fa83f5300cf9bb6c53ad1dc8a1788b15d52375a90ada06de06d4165e127ce559ec9108de58ce1a2775a6a81f335494948848c8b95940740be7f7c3705"":"010001";"SIG_RSA_SHA1:POLARSSL_MD_SHA1:"288062afc08fcdb7c5f8650b29837300461d5767c17a20a3cf8b5148949e37366b3ae8c27240e27c5b3ec4323ee76d68c0a6a9b5b15bcd196a9071e1992d132987612320971036a71812a0c4a4c0b5075598e62176461722871a812c0b2939890b5bb213c39e791af6bcfa766b147b081321f726461482a2a";

RSASSA-PSS Signature Example 4_4
pkcs1_rsassa_pss_verify:2027:16:"029223362d2838945d9ba9d7d723ff462a40f573735b927a87abe6a893a1658fd4947f6c7b0fa596c65f6a8a230fa432962d18d4343b6d6f71a5ea8d148413995":"020ef5e7efc5394aed22727fe81a747f4c02d1458949e1bc13abca9701a2afufe3c7329acb743d01f680c0d2afbc84af75e0209308111bb2b9957885e8772c0b1";

RSASSA-PSS Signature Example 4_5
pkcs1_rsassa_pss_sign:2027:16:"0209d88447eef6f57e0368f06fc52b0a3370760d161ce126b91be7f89c421b62a6ec1da3c31175ed50e0abff5fd33dbb3aca8a4e77ee26369ac81ba0900fa83f5300cf9bb6c53ad1dc8a1788b15d52375a90ada06de06d4165e127ce559ec9108de58ce1a2775a6a81f335494948848c8b95940740be7f7c3705";

RSASSA-PSS Signature Example 4_6
pkcs1_rsassa_pss_sign:2027:16:"0209d88447eef6f57e0368f06fc52b0a3370760d161ce126b91be7f89c421b62a6ec1da3c31175ed50e0abff5fd33dbb3aca8a4e77ee26369ac81ba0900fa83f5300cf9bb6c53ad1dc8a1788b15d52375a90ada06de06d4165e127ce559ec9108de58ce1a2775a6a81f335494948848c8b95940740be7f7c3705";

RSASSA-PSS Signature Example 4_7
pkcs1_rsassa_pss_sign:2027:16:"0209d88447eef6f57e0368f06fc52b0a3370760d161ce126b91be7f89c421b62a6ec1da3c31175ed50e0abff5fd33dbb3aca8a4e77ee26369ac81ba0900fa83f5300cf9bb6c53ad1dc8a1788b15d52375a90ada06de06d4165e127ce559ec9108de58ce1a2775a6a81f335494948848c8b95940740be7f7c3705";

RSASSA-PSS Signature Example 4_8
pkcs1_rsassa_pss_sign:2027:16:"0209d88447eef6f57e0368f06fc52b0a3370760d161ce126b91be7f89c421b62a6ec1da3c31175ed50e0abff5fd33dbb3aca8a4e77ee26369ac81ba0900fa83f5300cf9bb6c53ad1dc8a1788b15d52375a90ada06de06d4165e127ce559ec9108de58ce1a2775a6a81f335494948848c8b95940740be7f7c3705";
RSASSA-PSS Signature Example 5.4 (verify)

pkcs1_rsa_sass_pss_verify:1027:16:054adb7884f4e6f57e0368f06f52b0a3370760d161cef126b91b7e7f89e421b62

RSASSA-PSS Signature Example 4.5 (verify)

pkcs1_rsa_sass_pss_verify:1027:16:054adb7884f4e6f57e0368f06f52b0a3370760d161cef126b91b7e7f89e421b62

RSASSA-PSS Signature Example 4.6

pkcs1_rsa_sass_pss_sign:1028:16:03f2f331f4142d4f24b43aa01027a77f5775b927a87abef6a931a658f494f7f67c0baf6c56a823ab43296d18d434b36fd6f71a5e8ad414389995":16:020ef5efe7c5394aed2272f98e71474fc02d1458949cb1c3e4ca2974011680cd042a04bf48c8af7e2e09308111bb2b9595788b8672e110bb

RSASSA-PSS Signature Example 4.6 (verify)

pkcs1_rsa_sass_pss_verify:1027:16:054adb7884f4e6f57e0368f06f52b0a3370760d161cef126b91b7e7f89e421b62

RSASSA-PSS Signature Example 5.1

pkcs1_rsa_sass_pss_sign:1028:16:03f2f331f4142d4f24b43aa01027a77f5775b927a87abef6a931a658f494f7f67c0baf6c56a823ab43296d18d434b36fd6f71a5e8ad414389995":16:020ef5efe7c5394aed2272f98e71474fc02d1458949cb1c3e4ca2974011680cd042a04bf48c8af7e2e09308111bb2b9595788b8672e110bb

RSASSA-PSS Signature Example 5_3
pkcs1_rsassa_pss_sign:1028:16:03f2f331f4142df24b3a10279a89652d4e7537221a17a72a25deb551e5d69ae497 411c227a9c4e54f91c2d1c13c0c46cfce41e32d058734210d44a87ee1b73f":16:"03f4090d73b55803030cf0361a5d808 11bf7b9f8515236caec0a2124dd8d0410f388777a1870d0479de0686c6f27716de02f24be17c9267678059171339cc008 39":16:"0d10f661f29940f05ed39aa260966de4b7483679d2b6b253de370f3ac7e19017591d1df5257e6fafa4b4df45a 1759d996c44b4ebd18828c44fc52019171740525f47a4b0c8eda325ed8a66760df0d6e0a77f0f7692170acac8082f4a 2fa7cd7c1237e30a187859204acab66760d43a22d2b2def5e05392cf213bc507":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"8d83963e6507f01e1ef6a19017548e0c7166742fece23aad27f775656ec41f2db0d9a36b60761a 9daa7e8666c7f23d35319543003429245355ea1498c486fe879932865fc02000c5287237ba0335745b15209afafed9 2af8f98872c190094dad2894f92955ee31919f3a7374e9f969263ca27a28d9a5aa58ae8ce4eb58937a2b85d00612e7 760e43a171291a2e3f827237edaa85187e517665545f27323df8655f735f90d9c88fd15d8cc661f5df7ca5c75f7cde782e 6bf5d050570564bd98b3d2f9575e824ab7a33ff57ba0c100ab0d6edefa7aa0bf0f6ed4e3e5ee09b66":18:"815779a911b3a8ab4 40bf2aeb9201427722222c9":0,"0xe0dfebd6f765e773185c8ac8edc2eb602d99d56e35561b5d87e052d6e019d2 2f0bbf66f9e9b98217e86d413e1608d58280f318ee34f559941c8e1df13287574aac006b7e58dc4f414a4b9f1279d0f89 936638c76e85356c99f79750f7fa3cf4f482d7f5ebf9978c0d617fabb17572e6e30bde12bdcf186cb8979":0

RSASSA-PSS Signature Example 5_3 (verify)
pkcs1_rsassa_pss_verify:1028:16:03f2f331f4142df24b3a10279a89652d4e7537221a17a72a25deb551e5d69ae497 411c227a9c4e54f91c2d1c13c0c46cfce41e32d058734210d44a87ee1b73f":16:"03f4090d73b55803030cf0361a5d808 11bf7b9f8515236caec0a2124dd8d0410f388777a1870d0479de0686c6f27716de02f24be17c9267678059171339cc008 39":16:"0d10f661f29940f05ed39aa260966de4b7483679d2b6b253de370f3ac7e19017591d1df5257e6fafa4b4df45a 1759d996c44b4ebd18828c44fc52019171740525f47a4b0c8eda325ed8a66760df0d6e0a77f0f7692170acac8082f4a 2fa7cd7c1237e30a187859204acab66760d43a22d2b2def5e05392cf213bc507":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"328c659e0a6437433c14e9a0c74a8c8edc2eb602d99d56e35561b5d87e052d6e019d2 2f0bbf66f9e9b98217e86d413e1608d58280f318ee34f559941c8e1df13287574aac006b7e58dc4f414a4b9f1279d0f89 936638c76e85356c99f79750f7fa3cf4f482d7f5ebf9978c0d617fabb17572e6e30bde12bdcf186cb8979":0

RSASSA-PSS Signature Example 5_4
pkcs1_rsassa_pss_sign:1028:16:03f2f331f4142df24b3a10279a89652d4e7537221a17a72a25deb551e5d69ae497 411c227a9c4e54f91c2d1c13c0c46cfce41e32d058734210d44a87ee1b73f":16:"03f4090d73b55803030cf0361a5d808 11bf7b9f8515236caec0a2124dd8d0410f388777a1870d0479de0686c6f27716de02f24be17c9267678059171339cc008 39":16:"0d10f661f29940f05ed39aa260966de4b7483679d2b6b253de370f3ac7e19017591d1df5257e6fafa4b4df45a 1759d996c44b4ebd18828c44fc52019171740525f47a4b0c8eda325ed8a66760df0d6e0a77f0f7692170acac8082f4 2fa7cd7c1237e30a187859204acab66760d43a22d2b2def5e05392cf213bc507":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"9aec4a7480d5b7ec204a48490d5f871495c60e6b37e76b8499124":0,"0xe0dfebd6f765e773185c8ac8edc2eb602d99d56e35561b5d87e052d6e019d2 2f0bbf66f9e9b98217e86d413e1608d58280f318ee34f559941c8e1df13287574aac006b7e58dc4f414a4b9f1279d0f89 936638c76e85356c99f79750f7fa3cf4f482d7f5ebf9978c0d617fabb17572e6e30bde12bdcf186cb8979":0
RSASSA-PSS Signature Example 5_5
pkcs1_rsa_sss_pss_sign:1028:16:"03f2f31f44d2d4f2d4b43a10279a89652d4e7537221a1a7b2a25deb551e5de9ac4971141c27a9e4f5911c2d1ec034fcfe41c3e2d508743210d44a87ee1b73f":"03f090f7d3b5580303f0361a5d8083bf79b75152f3eac2b1240f3f048877817a10704d79d06866c2f77118decf02a4b17e92676780591713339c0839":"0d16f61f29940f5f3ed39aa20696edeb47843679d26fb2b3de370f3a9c3099163f9d25f527eafaa44d4f5a1759d996c4bb4ebd1882844fc52d0191871740525f4fa0b0c83da325ed8a676b0d626e0a77f07692170acc0802f42faa7c7d12c73e03a189872043b2ce6b67d43a2d2ddef5e05392f213bc507":"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"c6103c330c1ef718c4e147b8f8a859be4d5b9259e7d120470edc485839da58369e1c71114035e532d195c744f4a7642a6d8a4d20106e06367cb687710a4ba52d2b6e5af5dced487074d5eeb6c56b9763c4c4c3e3a0380ebbc2a89501cb290d2639fa5b87ec7907437cd3cb2d925e45642f367824f0e130281290baa442d2162282":"02802dca8fda52f79b0bf4a299a1b15761f74aeeaf4a9b8919d15941900e13397e926f8ae625c3e6ec8e840140b110bce03ad18525e3c49a0eadad53f28f244a8ed89edba
RSASSA-PSS Signature Example 5_6 (verify)
pkcs1_rsassa_pss_verify:1028:16:"040058d62b6a1bf2b1244934741d99a062200eaa2a5865aaee75730b2ee96ad86be894aa2b035b3a5e85d276acdb29ab283f80a7391b15a4a5051672b04eb4b534":"16:0483edae47915578743543625b55
5d3962b9bbbf61f5848b4c92b1771ca8ed107d83ee65cc44517d0f0a8a1838e90f7a2e747c269e7ea44480bc5388he5b":16:164a31cf0609f9aae7110b039ff24e6ed6d37519ab98598d179e1749965807147f3a045591587bde373cefla
a53f0a9ef0903e5678ca4c63900154c84f8aed51e12a5090c311a8c0ff8bb57a2972feconf63b9bb05103d1b098
e48bf5f6c4e7b8db1ffae0b8c3e8d2af8b3a422d16d262222:"23291e4430378e88b776623ab3e4a5fe488e88d8b":02802dcca88f52a79b
0fb8a29b9a1b157611faeaf419b8991d15941900ce339ce7e92ef6e8e56c5e6ce8841041bal0oed3ad18528e3c49a0eadad5d3f282fa44a8ed89edabaffb666277cfa8ae909714d6b2f8b4f8e293aa04c4e1fe70ca81266d5c061e2575b03e2aa46
4764f71f162619b974c45f0e7ed4ef3996ee7858e8f":16

RSASSA-PSS Signature Example 6_1
pkcs1_rsassa_pss_sign:1029:16:"04f0548c9626ab1ebf1244934741d99a062200eaa2a5865aaee75730b2ee96ad86be894aa2b035b3a5e85d276acdb29ab283f80a7391b15a4a5051672b04eb4b534":"16:0483edae47915578743543625b55
5d3962b9bbbf61f5848b4c92b1771ca8ed107d83ee65cc44517d0f0a8a1838e90f7a2e747c269e7ea44480bc5388he5b":16:164a31cf0609f9aae7110b039ff24e6ed6d37519ab98598d179e1749965807147f3a045591587bde373cefla
a53f0a9ef0903e5678ca4c63900154c84f8aed51e12a5090c311a8c0ff8bb57a2972feconf63b9bb05103d1b098
e48bf5f6c4e7b8db1ffae0b8c3e8d2af8b3a422d16d262222:"23291e4430378e88b776623ab3e4a5fe488e88d8b":02802dcca88f52a79b
0fb8a29b9a1b157611faeaf419b8991d15941900ce339ce7e92ef6e8e56c5e6ce8841041bal0oed3ad18528e3c49a0eadad5d3f282fa44a8ed89edabaffb666277cfa8ae909714d6b2f8b4f8e293aa04c4e1fe70ca81266d5c061e2575b03e2aa46
4764f71f162619b974c45f0e7ed4ef3996ee7858e8f":16

RSASSA-PSS Signature Example 6_1 (verify)
pkcs1_rsassa_pss_verify:1029:16:"04f0548c9626ab1ebf1244934741d99a062200eaa2a5865aaee75730b2ee96ad86be894aa2b035b3a5e85d276acdb29ab283f80a7391b15a4a5051672b04eb4b534":"16:0483edae47915578743543625b55
5d3962b9bbbf61f5848b4c92b1771ca8ed107d83ee65cc44517d0f0a8a1838e90f7a2e747c269e7ea44480bc5388he5b":16:164a31cf0609f9aae7110b039ff24e6ed6d37519ab98598d179e1749965807147f3a045591587bde373cefla
a53f0a9ef0903e5678ca4c63900154c84f8aed51e12a5090c311a8c0ff8bb57a2972feconf63b9bb05103d1b098
e48bf5f6c4e7b8db1ffae0b8c3e8d2af8b3a422d16d262222:"23291e4430378e88b776623ab3e4a5fe488e88d8b":02802dcca88f52a79b
0fb8a29b9a1b157611faeaf419b8991d15941900ce339ce7e92ef6e8e56c5e6ce8841041bal0oed3ad18528e3c49a0eadad5d3f282fa44a8ed89edabaffb666277cfa8ae909714d6b2f8b4f8e293aa04c4e1fe70ca81266d5c061e2575b03e2aa46
4764f71f162619b974c45f0e7ed4ef3996ee7858e8f":16
RSASSA-PSS Signature Example 7.3 (verify)

pkcs1_rsa_pss_sign:1030:16:"379da4a66c84088b8da27d0c9d79f8c8cb1eafc1d2fe48746d940b7c4e5fdeee18ad112647cefa0ae4b31888b221c5153867569b93f02024b25ab9242f83578df3f94d60e5e643afef6c4deefa7089727c8ff03993333915cecfef1b1f5973b6e50d11b550e33e90f1a0a545a10a836a43ddca9d8b5c5d3548022d706ea29ab3":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"808405cdefa1a5b9f0307c720722a18ff676278f8353917ef9e3cf743814b3e016ba2973cd2765f8f382d6c38a78f551827fe8d1e38847eb61c94683bf82f183bdaee2257e9e9812ad4c2ef2835c34e0b0ae0fe3cb9990ef88feef9":"28039dcfe106db32969112583a66516c9e92d":"23:61fde9959b977a09589686274662ba2eaf06404b575904501c1fe77a71a565b5292f228ef6808da37a87968941e1634a8bb7075afbd69c12ad9f9d2f84ad945d3d8ec8039c03eddf26e95f0534045b0db63a20d3e640a2ebfb8989aac35ae0f26ece5563c2f92f40342af76f7c072d687bbfb959a88460af1":0

RSASSA-PSS Signature Example 7.4

pkcs1_rsa_pss_sign:1030:16:"07eefb424b03e3a04e208ee5afba280b22317308114d0e0b64f730184ec68adace2867a9f48ed7726d5e2614de04a5410736e8c714ee0720474298c6292a07f535":16:"070830db947eae0228d26314b59b66994cc6e0e836e075d3876298f8f8a7d1411d0a64ec9f30a973c82f5245738ee66972b1304cbcf824dadd7cd1e1159d547":16:"379da4a66c84088b8da27d0c9d79f8c8cb1eafc1d2fe48746d940b7c4e5fdeee18ad112647cefa0ae4b31888b221c5153867569b93f02024b25ab9242f83578df3f94d60e5e643afef6c4deefa7089727c8ff03993333915cecfef1b1f5973b6e50d11b550e33e90f1a0a545a10a836a43ddca9d8b5c5d3548022d706ea29ab3":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"f337b9bad937de22a1a052dff11134aace26976202981939b1e0715ae5e690449a1adafce3f4e5a9bb38360ed7e4967c54fb0ab5ac9f9bbd6166ead8a3e24f22734773510398a80088398907b3a5f4af98493497c0d05fb70178b22821526edef625e6116dced750ce786875c39ff3a4067e9ab0f19863ab1b5073770b0cd5f533cace306b9f533ca3d6a8026e0a36cf11b9f1a95bb4af7479b62233cb3fe0f71abade4eb7c94fe12c4e222d2f4a8104eb77a173f7eb63944d1bce63cf0d91b7f52ceaf92a3015e8ceeb338a6c8eb06437c3e4cece2b2ceff253a23b08626d2c6ba7a93a295d50d3044":a77821ebbeff42682e4e12e1df6ae96398f70f":"32c7ca38f26949a150004ca0b4b21b35a35800e568b1847decaab166bf7afddb26fc4fa0712094379f0e5a5be040aa36ef132e1ce301e10f567982d27aee3988d8b2c3094034e762d203126401170beecbb3d1439e05846254583676a7d9c0206044464726716e4e877864559ca19b20745d88a28158b50d423772fbbef":0

RSASSA-PSS Signature Example 7.5 (verify)

pkcs1_rsa_pss_sign:1030:16:"379da4a66c84088b8da27d0c9d79f8c8cb1eafc1d2fe48746d940b7c4e5fdeee18ad112647cefa0ae4b31888b221c5153867569b93f02024b25ab9242f83578df3f94d60e5e643afef6c4deefa7089727c8ff03993333915cecfef1b1f5973b6e50d11b550e33e90f1a0a545a10a836a43ddca9d8b5c5d3548022d706ea29ab3":16:"010001":SIG_RSA_SHA1:POLARSSL_MD_SHA1:"f337b9bad937de22a1a052dff11134aace26976202981939b1e0715ae5e690449a1adafce3f4e5a9bb38360ed7e4967c54fb0ab5ac9f9bbd6166ead8a3e24f22734773510398a80088398907b3a5f4af98493497c0d05fb70178b22821526edef625e6116dced750ce786875c39ff3a4067e9ab0f19863ab1b5073770b0cd5f533cace306b9f533ca3d6a8026e0a36cf11b9f1a95bb4af7479b62233cb3fe0f71abade4eb7c94fe12c4e222d2f4a8104eb77a173f7eb63944d1bce63cf0d91b7f52ceaf92a3015e8ceeb338a6c8eb06437c3e4cece2b2ceff253a23b08626d2c6ba7a93a295d50d3044":a77821ebbeff42682e4e12e1df6ae96398f70f":"32c7ca38f26949a150004ca0b4b21b35a35800e568b1847decaab166bf7afddb26fc4fa0712094379f0e5a5be040aa36ef132e1ce301e10f567982d27aee3988d8b2c3094034e762d203126401170beecbb3d1439e05846254583676a7d9c0206044464726716e4e877864559ca19b20745d88a28158b50d423772fbbef":0

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 7069
RSASSA-PSS Signature Example 8_1 (verify)

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RSASSA-PSS Signature Example 8_2
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RSASSA-PSS Signature Example 8_2 (verify)
RSASSA-PSS Signature Example 8_3

pkcs1_rsa_signature_sign:1031:16:09b1aa46c0a2aa0e12f63fbb757ba7e0:0

RSASSA-PSS Signature Example 8_3 (verify)

pkcs1_rsa_signature_verify:1031:16:09b1aa46c0a2aa0e12f63fbb757ba7e0:0

RSASSA-PSS Signature Example 8_4

pkcs1_rsa_signature_sign:1031:16:09b1aa46c0a2aa0e12f63fbb757ba7e0:0

RSASSA-PSS Signature Example 8_4 (verify)

pkcs1_rsa_signature_verify:1031:16:09b1aa46c0a2aa0e12f63fbb757ba7e0:0
RSASSA-PSS Signature Example 8.5
pkcs1_rsa_sighash:1031:16:"04dc251be72e88e572342856b3836a37e2fe07f6660519a5b068bc18b8dedb8edaea234e53a9dcab63d2e6db6oa42b3e87f291b04a881d5b572cc9a85e19c8ac82b0f89f89da0338c566cd03c8f95d3c60e2c4de8c71387f1996622e927:"058d5d7167cb4508ada49274717b1377ee42693":"33411ba5761a50a5e25c6f87292438e5d693f5acc235ac95add6e85ebec3166dd60ca7adcdaf70a0176230572a51950cdb8afa3c5379f18f06b5bca468226a15e912ef19ad77adee9119d67cefd69db4a3fa4119135ff642117ba985a7e0100352e95191f1ca6a9216bda055b5785015291125e90cde07a0ca9673ee":0

RSASSA-PSS Signature Example 8.6
pkcs1_rsa_sighash:1031:16:"04dc251be72e88e572342856b3836a37e2fe07f6660519a5b068bc18b8dedb8edaea234e53a9dcab63d2e6db6oa42b3e87f291b04a881d5b572cc9a85e19c8ac82b0f89f89da0338c566cd03c8f95d3c60e2c4de8c71387f1996622e927:"058d5d7167cb4508ada49274717b1377ee42693":"33411ba5761a50a5e25c6f87292438e5d693f5acc235ac95add6e85ebec3166dd60ca7adcdaf70a0176230572a51950cdb8afa3c5379f18f06b5bca468226a15e912ef19ad77adee9119d67cefd69db4a3fa4119135ff642117ba985a7e0100352e95191f1ca6a9216bda055b5785015291125e90cde07a0ca9673ee":0

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RSASSA-PSS Signature Example 9_2 (verify)

```
...pkcs1_rsassa_pss_verify:1536:16:
...pkcs1_rsassa_pss_sign:1536:16:
```

RSASSA-PSS Signature Example 9_3

```
...pkcs1_rsassa_pss_verify:1536:16:
...pkcs1_rsassa_pss_sign:1536:16:
```

RSASSA-PSS Signature Example 9_4 (verify)

```
...pkcs1_rsassa_pss_verify:1536:16:
...pkcs1_rsassa_pss_sign:1536:16:
```

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Open Source Used In HyperFlex HX Data Platform 5.0(2a)
Open Source Used In HyperFlex HX Data Platform 5.0(2a)
RSASSA-PSS Signature Example 10_6 (verify)

pkcs1_rsassa_pss_verify:2048:16:"a5dd867ac4cb02f90b9457d48c14a770e991c56c39c0ec65fd11afa8937cea57b9b
e7ac73bb45c00176158b82d262e318753b6027c0fd1157be12f8090fee2a7adc0defe75f988ba4997c4a2d58c9aa12cb99a
e001fe521c13bb5431445a8d5ae4f5e4c7e948ac227d3604071f20e577e905fbeb15daf0af6d1e5eae6253636a6a2120b3
1a5da5abcd9550600e20f27d73739e2627925e3ac509f21df04e6eaa5459c540d6809f93707ede91f1f58733d83585a23
76d63705a33e391900992070df7ad11357cf7e3700ece3667de83f17f8df177d83b1de09cbfa04d058a511001a7381988ee
27cf55a13b754539906582ec8b174bd58d5f1d3f76c163721ae05":16:"010001";"SIG_RSA_SHA1:POLARSSL_MD_SHA1:"25f10895a87716c137450bb9519dfaaf1207fa94e2a88af71e9c17980005b555aabab76264ae2a3ab93c2d12
981191dace6fbf594eb36aee35c5a490f00752c916d94e08fa7d97ba6a29156688f203234e99d96801d89a72ab5892d
2117c07434fcf972e058cf8c41ca4b4ff554fd75068ad3155fced0f3125bc04f9193378a8f5c43b8eb44d6116c69d30ec
abceaa31e36a05730e9c342e855ba099d6eb8afd7":16":ad8b152370364622466b0550889517ca2d1d28":"6d3b5b87f167
ea657af21717441977d2180919b2c5f692de82955696a86730db97878970758cb26071ec2209fbd6d125e2e96a1b
67cb9b9308239fda1717b2b64ecda09666935640a5a1c4b42a9155b1ef7a63a302c59f0deee59852c43b35029e73c9
40f0f410e8114ee4d6b0df1e65e42e12528a401c3b2f9818ef323ca9f42d0a5166ec59423936ed11adc1215a56
fa17169db957534e3f4392de32a49dec3174922f22c23e184e4df9353119ec431cece7a17c64088c11f652be2963410
0b3919d383d1d94e6891e66a73b8fb84958745d7f59459e298c7bce2eee782a195a666fe2d0732b25e9595f573de061b
1f3e4063b9f8":0
BLOWFISH-ECB Encrypt SSLeay reference #1

blowfish_encrypt_ecb:"000000000000000000":"000000000000000000":"4ef997456198dd78":0

BLOWFISH-ECB Encrypt SSLeay reference #2

blowfish_encrypt_ecb:"fffffff3fffffff":"fffffff3fffffff":"518666fd5858eb8a":0

BLOWFISH-ECB Encrypt SSLeay reference #3

blowfish_encrypt_ecb:"000000000000000000":"000000000000000000":"7d856f9a613063f":0

BLOWFISH-ECB Encrypt SSLeay reference #4

blowfish_encrypt_ecb:"1111111111111111":"2466dd878b963c9":0

BLOWFISH-ECB Encrypt SSLeay reference #5

blowfish_encrypt_ecb:"0123456789abedef":"111111111111111":"61f9c3802281b096":0

BLOWFISH-ECB Encrypt SSLeay reference #6

blowfish_encrypt_ecb:"0123456789abedef":"11111111111111":"7d0cc630afda1ec7":0

BLOWFISH-ECB Encrypt SSLeay reference #7

blowfish_encrypt_ecb:"000000000000000000":"000000000000000000":"4ef997456198dd78":0

BLOWFISH-ECB Encrypt SSLeay reference #8

blowfish_encrypt_ecb:"fedcba9876543210":"0123456789abedef":"0aceab0f6ca0a28d":0

BLOWFISH-ECB Encrypt SSLeay reference #9
blowfish_encrypt_ecb:"49e95d6d4ca229bf":"02fe55778117f12a":"cf9c5d7a4986adb5":0

BLOWFISH-ECB Encrypt SSLeay reference #26
blowfish_encrypt_ecb:"018310dc409b26d6":"1d9d5c5018f728e2":"d1abb290658bc778":0

BLOWFISH-ECB Encrypt SSLeay reference #27
blowfish_encrypt_ecb:"1c587f1c13924f1e":"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":"a790795108ea3ca":0

BLOWFISH-ECB Encrypt SSLeay reference #30
blowfish_encrypt_ecb:"e0fee0fee1f1f1fe":"0123456789abcdef":"c39e072d9fa631d":0

BLOWFISH-ECB Encrypt SSLeay reference #31
blowfish_encrypt_ecb:"0000000000000000":"fffffffffffffff":"014933e0caeff6e":0

BLOWFISH-ECB Encrypt SSLeay reference #32
blowfish_encrypt_ecb:"fffffffffffffff":"0000000000000000":"f21e9a77b71c49bc":0

BLOWFISH-ECB Encrypt SSLeay reference #33
blowfish_encrypt_ecb:"0123456789abcdef":"0000000000000000":"245946885754369a":0

BLOWFISH-ECB Encrypt SSLeay reference #34
blowfish_encrypt_ecb:"fedcba9876543210":"fffffffffffffff":"6b5c5a9c5d9e0a5":0

BLOWFISH-ECB Decrypt SSLeay reference #1
blowfish_decrypt_ecb:"0000000000000000":"4ef997456198dd78":"0000000000000000":0

BLOWFISH-ECB Decrypt SSLeay reference #2
blowfish_decrypt_ecb:"fffffffffffffff":"51866d5b85eb8a":"fffffffffffffff":0

BLOWFISH-ECB Decrypt SSLeay reference #3
blowfish_decrypt_ecb:"3000000000000000":"7d856f9a613063f2":"1000000000000001":0

BLOWFISH-ECB Decrypt SSLeay reference #4
blowfish_decrypt_ecb:"1111111111111111":"2466dd878963e9d":"111111111111111":0

BLOWFISH-ECB Decrypt SSLeay reference #5
blowfish_decrypt_ecb:"0123456789abcdef":"61f9c3802281b096":"1111111111111111":0

BLOWFISH-ECB Decrypt SSLeay reference #6
blowfish_decrypt_ecb:"1111111111111111":"7d0cc630afda1ec7":"0123456789abcdef":0

BLOWFISH-ECB Decrypt SSLeay reference #7
blowfish_decrypt_ecb:"0000000000000000":"ef997456198dd78":"0000000000000000":0

BLOWFISH-ECB Decrypt SSLeay reference #8
blowfish_decrypt_ecb:"f0edcb9876543210":"0aceab0fc6a0a28d":"0123456789abcdef":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:"07a1133e40b2686":"1730e5778bea1da4":"0248d43806f7172":0

BLOWFISH-ECB Decrypt SSLeay reference #12
blowfish_decrypt_ecb:"3849674c2602319e":"a25e7856cf2651eb":"51454b582ddff4a0":0

BLOWFISH-ECB Decrypt SSLeay reference #13
blowfish_decrypt_ecb:"04b915ba43feb5b6":"353882b109ce8f1a":"42fd443059577fa2":0

BLOWFISH-ECB Decrypt SSLeay reference #14
blowfish_decrypt_ecb:"0113b970fd34f2ce":"48f4d0884c379918":"059b5e0851cf143a":0

BLOWFISH-ECB Encrypt SSLeay reference #15
blowfish_encrypt_ecb:"0170f175468fb5e6":"0756d8e0774761d2":"432193b78951fc98":0

BLOWFISH-ECB Decrypt SSLeay reference #16
blowfish_decrypt_ecb:"43297fad38e373fe":"13f04154d69d1ae5":"762514b829bf486a":0

BLOWFISH-ECB Decrypt SSLeay reference #17
blowfish_decrypt_ecb:"07a7137045da2a16":"2eedda93ff39c79":"3b0d11904c72802":0

BLOWFISH-ECB Decrypt SSLeay reference #18
blowfish_decrypt_ecb:"04689104c2fd3b2f":"d887e0393c2da6e3":"26955f6835af609a":0

BLOWFISH-ECB Decrypt SSLeay reference #19
blowfish_decrypt_ecb:"37d06bb516cb7546":"5f99d04f5b163969":"164d5e404f275232":0

BLOWFISH-ECB Decrypt SSLeay reference #20
blowfish_decrypt_ecb:"1f08260d1ac2465e":"4a057a3b24d3977b":"6b056e18759f5cca":0

BLOWFISH-ECB Decrypt SSLeay reference #21
blowfish_decrypt_ecb:"584023641aba6176":"452031c1e4fada8e":"004bd6ef09176062":0

BLOWFISH-ECB Decrypt SSLeay reference #22
blowfish_decrypt_ecb:"025816164629b007":"7555ae39f59b87bd":"480d39006ee762f2":0

BLOWFISH-ECB Decrypt SSLeay reference #23
blowfish_decrypt_ecb:"49793ebc79b3258f":"53c55f9eb49fc019":"437540c8698f3cfa":0

BLOWFISH-ECB Decrypt SSLeay reference #24
blowfish_decrypt_ecb:"4fb05e1515ab73a7":"7a8e7bfa937e89a3":"072d43a077075292":0

BLOWFISH-ECB Decrypt SSLeay reference #25
blowfish_decrypt_ecb:"49e95d6d4ca229bf":"cf9c5d7a4986adb5":"02fe55778117f12a":0

BLOWFISH-ECB Decrypt SSLeay reference #26
blowfish_decrypt_ecb:"018310dc409b26d6":"d1abb290658bc778":"1d9d5c5018f728c2":0

BLOWFISH-ECB Decrypt SSLeay reference #27
blowfish_decrypt_ecb:"1c587f1c13924afef":"55cb7774d13ef201":"305532286d6f295a":0

BLOWFISH-ECB Decrypt SSLeay reference #28
blowfish_decrypt_ecb:"0101010101010101":"fa34ec4847b268b2":"0123456789abcdef":0

BLOWFISH-ECB Decrypt SSLeay reference #29
blowfish_decrypt_ecb:"1f1f1f1f0e0e0e0e":"a790795108ea3cae":"0123456789abcdef":0

BLOWFISH-ECB Decrypt SSLeay reference #30
blowfish_decrypt_ecb:"e0fee0fe1fe1fe":"c39e0729f6ac631d":"0123456789abcdef":0

BLOWFISH-ECB Decrypt SSLeay reference #31
blowfish_decrypt_ecb:"0000000000000000":"014933e0cdaff6e4":"ffffffffffffff":0

BLOWFISH-ECB Decrypt SSLeay reference #32
blowfish_decrypt_ecb:"ffffffffffffff":"f21e639408640f05":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 440 bits
blowfish_encrypt_ecb:"f0e1d2c3b4a596877869a4b3c2d1e0f0011223345566778899abbcdddeeff0123456789abedef0102030405060708090a0b0c0d0e0f":"fedcba9876543210":"9a2ab8f1b0ce73d2":0

BLOWFISH-SETKEY Setkey 448 bits
blowfish_encrypt_ecb:"f0e1d2c3b4a596877869a4b3c2d1e0f0011223345566778899abbcdddeeff0123456789abedef0102030405060708090a0b0c0d0e0fff":"fedcba9876543210":"2fb3ab7f0ee691b69":0

BLOWFISH-SETKEY Setkey 456 bits
blowfish_encrypt_ecb:"f0e1d2c3b4a596877869a4b3c2d1e0f0011223345566778899abbcdddeeff0123456789abedef0102030405060708090a0b0c0d0e0ffeff":"fedcba9876543210":":POLARSSL_ERR_BLOWFISH_INVALID_KEY_LENGTH"

BLOWFISH-CBC Encrypt
blowfish_encrypt_cbc:"0123456789ABCDEFF0E1D2C3B4A59687":"FEDCBA9876543210":"3736354333231204E6F77206973207468652074696D65206F722000000000":"6b77b4d63006dee605b156e27403979358deb9e7154616d959f1652db5f92cc":0

BLOWFISH-CBC Decrypt
blowfish_decrypt_cbc:"0123456789ABCDEFF0E1D2C3B4A59687":"FEDCBA9876543210":"6b77b4d63006dee605b156e27403979358deb9e7154616d959f1652db5f92cc":0

BLOWFISH-CBC Encrypt
blowfish_encrypt_cbc:"0123456789ABCDEFF0E1D2C3B4A59687":"FEDCBA9876543210":"3736354333231204E6F77206973207468652074696D65206F722000000000":":POLARSSL_ERR_BLOWFISH_INVALID_INPUT_LENGTH"

BLOWFISH-CBC Decrypt
blowfish_decrypt_cbc:"0123456789ABCDEFF0E1D2C3B4A59687":"FEDCBA9876543210":"3736354333231204E6F77206973207468652074696D65206F722000000000":"":POLARSSL_ERR_BLOWFISH_INVALID_INPUT_LENGTH"
ID_INPUT_LENGTH

BLOWFISH-CFB Encrypt
blowfish_encrypt_cfb64:"0123456789ABCDEFF0E1D2C3B4A59687":"FEDCBA9876543210":"37363534333231204E6F7769732074686520746966D6520666F722000":"e73214a2822139caf26eef6d2eb9e76e3da3de04d1517200519d57a6c3":0

BLOWFISH-CFB Decrypt
blowfish_decrypt_cfb64:"0123456789ABCDEFF0E1D2C3B4A59687":"FEDCBA9876543210":"E73214A2822139CAF26E6F2EB9E76E3DA3DE04D1517200519D57A6C3":"37363534333231204e6f77720697320746865206746966D6520666F722000":0

BLOWFISH-CTR Encrypt
blowfish_encrypt_ctr:"0123456789ABCDEFF0E1D2C3B4A59687":"FEDCBA9876543210":"e73214a2822139ca60254740dd8eb58a1cf5e9569c4affeb944b8fc020e":0

BLOWFISH-CTR Decrypt
blowfish_encrypt_ctr:"0123456789ABCDEFF0E1D2C3B4A59687":"FEDCBA9876543210":"e73214a2822139ca60254740dd8eb58a1cf5e9569c4affeb944b8fc020e":0

GCM NIST Validation (AES-128,128,0,0,128) #0
gcm_encrypt_and_tag:"1014f74310d1718d1cc8f65f033aaf83":"":"6bb54e9fd83e2f5ba76e38f7650d2e":"":"":128:"0b6b57db309eef920c8133b8691e0cacc":0

GCM NIST Validation (AES-128,128,0,0,128) #1
gcm_encrypt_and_tag:"d874a2f2269352cccd83cc2d4e45b7":":"9717abb9ed14f2760a067279c3821e3":":"":128:"0e09e53e5fe8d818c5397cf5113eda97":0

GCM NIST Validation (AES-128,128,0,0,128) #2
gcm_encrypt_and_tag:"7dab77e23b901e926454f296777eb62d4":":"8aaec11e4a0f053d7f40badd31a63e27":":"":128:"0ec2e3230db762aee527e184e4e0dbc":0

GCM NIST Validation (AES-128,128,0,0,120) #0
gcm_encrypt_and_tag:"2397f163a0cb50b0e8c85f909b96ade1":":"97a631f56f6c928ffce32ee2e92f5e50":":"":120:"3b74ca7b7ec07c8f8d4818de714f2":0

GCM NIST Validation (AES-128,128,0,0,120) #1
gcm_encrypt_and_tag:"a7ad0d3aacef42397bba79dd65dbd":":"c6d3114c1249e3731463808ad484c87c":":"":120:"d88141d27fe1748919845cfa5934bc":0

GCM NIST Validation (AES-128,128,0,0,120) #2
gcm_encrypt_and_tag:"10171805df7f7a8d87b64bda57474d7fe":":"fad65b50e1007c4b0e83c7a6720caeb8":":"":120:"e3d3f240d5f3da317eae42a238bcc1":0

GCM NIST Validation (AES-128,128,0,112) #0
gcm_encrypt_and_tag:"8aaa0c85d214e6c9e9e260e62f695827":":"84e25c916f38dd6f7b32c06d8f86bb":":"":112:"a774815a2a8432ca891ef4003125":0
GCM NIST Validation (AES-128,128,0,0,112) #1
gcm_encrypt_and_tag:"def8b6a5888e582e57700bab4f2a4109":"":"3615439e9fb777439eb814256c894fb2":"":"":112:"537be9c88d3a468456c6cf5f91e11":0

GCM NIST Validation (AES-128,128,0,0,112) #2
gcm_encrypt_and_tag:"5894231d7f43f79638687c070b60beee1":"":e34cd13b897d1c9b8011a0e63950c099":"":":1 12:"d582e4bc083a8cf1af4d5ce9b11":0

GCM NIST Validation (AES-128,128,0,0,104) #0
gcm_encrypt_and_tag:"6b25f9cbed3b3bed27fd245a1c411594bc":"":a6526f8c803b69dd5f5feca1c7f8e2":"":":104:"c7e19e08a09c1fa698202890":0

GCM NIST Validation (AES-128,128,0,0,104) #1
gcm_encrypt_and_tag:"b3235422897b6459798a97dd709db3d":"":96679e9362f919217d5e64068969d958":"":":104:"44ed41bda0eb0958d407b7b787":0

GCM NIST Validation (AES-128,128,0,0,104) #2
gcm_encrypt_and_tag:"f65bce795434efba3c5399ed3e99f0f045":"":2e727c19a89c6a69c94d990245fceed":"":":104:64830ed7f772e898800fc9ae2a":0

GCM NIST Validation (AES-128,128,0,0,96) #0
gcm_encrypt_and_tag:"f65bce795434efba3c5399ed3e99f0f045":"":2e727c19a89c6a69c94d990245fceed":"":":104:64830ed7f772e898800fc9ae2a":0

GCM NIST Validation (AES-128,128,0,0,96) #1
gcm_encrypt_and_tag:"13558db97441c585d381ffcc16b32517":"":addf5dbe0975c5ad321e14dd4bdc2ad2":"":":96:f413c3bf125ce5317cd1c6bd":0

GCM NIST Validation (AES-128,128,0,0,96) #2
gcm_encrypt_and_tag:"74638628b1361c2954ce0ac5456a1155":"":c5861507c879e6864d7cb1f77cc55ce6":":":96:8a514f4d27c835711e4f458199":0

GCM NIST Validation (AES-128,128,0,0,64) #0
gcm_encrypt_and_tag:"7815d22c5c081df9ac2114aaa2e0cbf9":"":822f83cd9f249dfc204b59570b0deab":"":":64:aa1f69f53b79e5":0

GCM NIST Validation (AES-128,128,0,0,64) #1
gcm_encrypt_and_tag:"1a847a47823cb9e298e4107c6aaff95e":"":39348f80c6be4889f9315be7af6fcb96f":":":64:c3b3f31e56cf4895":0

GCM NIST Validation (AES-128,128,0,0,64) #2
gcm_encrypt_and_tag:"1ee67ea248ea6db08af1d810cb10574e":"":50386e2075eb15ca3f3e6dbbfbf01969":"":":64:3d4f3b8526a376ae":0

GCM NIST Validation (AES-128,128,0,0,32) #0
gcm_encrypt_and_tag:"26a8301636ba93e7f56309143f184241":"":c7e32b1d312971bdc344aeafa45461bc":"":":32:25f1b41c":0
GCM NIST Validation (AES-128,128,0,0,32) #1

gcm_encrypt_and_tag:"130a07c46f067148da2790f09d73f32":"":"800b81c9d2ff3a8e15960ff4b117e211":"":"":32:"abcc8d71":0

GCM NIST Validation (AES-128,128,0,0,32) #2

gcm_encrypt_and_tag:"ccfae59c3196bb8c403716424ea601f5":"":"f9b059de0e0a4e3f674673dd3d098410":"":"":32:"89334444":0

GCM NIST Validation (AES-128,128,0,0,32) #3

gcm_encrypt_and_tag:"b5beefb2d1360f2dd1e6e3c11ddfebf":"":"81a8494f5be63571e566378962494":"f9ebf2426b16a42e2057e3db5b64c273499f1ed48817a170654e7511cfc6f304709b4e6ee1ecb42f7875e0f488a8c6b0a25cf6f19d537c3df0699bc6ef21cbec8986ec9b6687963b8d9db91b7134afe69d3d9dec3a7b66c645f9e5528968f27396cc9e898d589369c90b9bfefb249e3fa164651bc3d5692c5eefed76":"":128:"159a642185e07566d46f1db57af975fa3":0

GCM NIST Validation (AES-128,128,0,0,32) #4

gcm_encrypt_and_tag:"c465aa8fe5d534c912e654519aeed5857":"":"5c155f7194b0d1aee0b9a0ca234d60944":"a3f8d705b23b5745399f725305b6ca493e130688e1a9063e13e8e4687688c352f9f8eadd5c5be9c5ed90c6e6e56e2b0265d9a1af38d526392ab639b043c1b1b4e318321e84eb7e8884f2463c32b55eb58596b10918595a727a61cfdf935e496d0721612720d46a9464875b52779f6ce0abf04fc5608351197b472d2":"":128:"9595a68d79c7a949fa08e959d2b76c69":0

GCM NIST Validation (AES-128,128,0,0,32) #5

gcm_encrypt_and_tag:"097c05935037c6b358dbb5af6babf52b":"":"00caedfa078c27e3d9551e3fbd89d77":"6c4bde11129a9d59fc6fa482ec19f5f1c582e042b3147997b045024f9e669de1cb8b0a3b7a1858f8b035267e6f03206268008e2b9786444df046c9eb6b4a64676623eb4e9e8608042ea9120aed03b8808352683391496d8990e40e8480ec98e2e080f45aa1ef6007c65220319d8678184ab5481083b7464c6441e87a568e0c":"":120:"5075ef456c326276264703f72badde":0

GCM NIST Validation (AES-128,128,0,0,32) #6

gcm_encrypt_and_tag:"d25db5eca46c16490249423ca0c3566":"":"6f3f715d6c7ea816278ab97729fa45e":"bd76fd431ce7a2268e5d7289bc6519e3b5429a5f85249021d6b595eb9e26e18914a381a6b0299acc3725431b352670f206b731b718a598ec123d3ea02ca5aa0a4641b902e704da19967b90e0a55c2722298365a50cb5b5ec03a1d0c6b678d8de18b06e72aaf91137e098e7dce182533877d4a453c3ebd2ec0a23eaaebbb":"":120:"00510851e9682213d4124d5517ebaf":0

GCM NIST Validation (AES-128,128,0,0,32) #7

gcm_encrypt_and_tag:"b3c625ba726aaf94a7be4c1646c68157":"":"7f5b3315afe5167a7e9061ab8b005588":"0e3f384862e7e00c2912e7df91345dc3134b5448e638f41135ba9199e03a7f208887e467563b39af61316540e14018ff413865c0fc1572a465d3210b17832d63c7676d2b458348332b0b54222a5e7381475a59440f280db6e1f4b8d0abfd47e3db11a9ef89c5a534f00e872be30af2bfe2df8eb7f8d3a033e4":"":120:"180489039ccf4a86c5f6349fc2235b":0
GCM NIST Validation (AES-128,128,0,1024,104) #0
gcm_encrypt_and_tag:"83f7631c4d4c466c924a6ecbc48e2dde6f":"f5d6c8c252eb687a931c38f58f74943c":"1f35e94a5df0424b690a15038126a41052593d34fdf3e60855f9e6b040f88ac61d79584b701bfdbc487999a6ecbf7 4e4a331b198204a251e731f7d85b966da59b5745d01769623492c1b3b9d63c3b54242e53a949c6193096d74f39375 07614dabc457f1cd3ce19e439b6e62703f2189372938b29b7a542b9":"bb85dbd858ab7b52da7e5c":0

GCM NIST Validation (AES-128,128,0,1024,96) #0
gcm_encrypt_and_tag:"873da56e19d0c2c99a31f7c908b8d8de62":"712e66550a838eeca9d79e2af6b62c3":0

GCM NIST Validation (AES-128,128,0,1024,80) #0
gcm_encrypt_and_tag:"fa815067d4ed91b93f6ec9b99b35f37":"f16d0619b0f45db995ce8558ef8a6":"81f6e108c29a4640c76bd652d32a7bfbbe114acec99b495636689ad65f56ff794837946602e04de7d4304aa18109e7fbd4dc5 4b508cf39c3cbb727315d9b79540d78956220397493707614dbac457f1cd3ce19e439b6e62703f2189372938b29b7a542b9":"bb85dbd858ab7b52da7e5c":0

GCM NIST Validation (AES-128,128,0,1024,96) #1
gcm_encrypt_and_tag:"784e023b2d4e9798151d05ee715353c56":"f16d041b90f45db995ce8558ef8a6":"81f6e108c29a4640c76bd652d32a7bfbbe114acec99b495636689ad65f56ff794837946602e04de7d4304aa18109e7fbd4dc5 4b508cf39c3cbb727315d9b79540d78956220397493707614dbac457f1cd3ce19e439b6e62703f2189372938b29b7a542b9":"bb85dbd858ab7b52da7e5c":0
GCM NIST Validation (AES-128, 128, 1024, 0, 128) #0
gcm_encrypt_and_tag:"7fc807cd1cf181040a4e3b19465928b":"c4a52c1f1f0d32c21fb85fb2a1d1b358b332e0a66c7893c566b2e59f6fde99f6c7b6b167dcb0485a8ed53d1068d90b99f0360b044039791b6e6048aba0ee4ce109009fde602af959d9699f5bfb6b2a19aead59b1f8c5b7250c5a6ecf6e8568af8a064124551da38d29a17696eb1a7a0341e363f010e9f2d26688ecf3d82":"9963a3b1f6beacdf6d88c5e839292f":"":"e784ab00de8a52de4b26e80d847c5edc777cb2475a4ab14c529828d9e51c5451b14ea5f99a9ada547e8a331d79564acdb2a8159ee0f6e9019b1880650e4811dad6180acdb8c5ede9992476b0736e5736ec94709eb7815b599f7757743283a4c2146930680af36d1e06961157db19ce75d3ad3b130cd1cb":"f11e5a8e24f888ce96796e1086ed05b":""

GCM NIST Validation (AES-128, 128, 1024, 0, 128) #1
gcm_encrypt_and_tag:"a0b03d1d44fe09200a0892b0e879f66ec":"1c7c51d890cd1024868d81e618c23fa335067ac324e1117edd937853db616df737277225a5a5bd58070546edc979e36846ed0a923fffb71c23c379fc9eb8d81dcbd3d0ac34aa875db3167ce1d519004d4fa8ba041af67a1ed3d4e09c32b3e8e10abdf194f6836ece747b19f5bc065f3b18aa78e7ff185d212b52ce0":"ad4dee18ec6e19433ad202116468af8b":"":"a30044582d5ac733f2730b40420993831d0fa4c134aa839bce7353799fb44c4cd1b3fe747e2933457ff21f39e943a38a85457f699de99a8f8867346e4218fc65138055ad8eb5d3044f4ed6568c312b166199e6862fa226558dc4b516d85b19f149fbba40d2db7d59ce9e5fd5053558c58e9637592ad20c73c174719fb28c7358":"112":"fa18a4f8f88ce96796e1086ed05b":""}

GCM NIST Validation (AES-128, 128, 1024, 0, 128) #2
gcm_encrypt_and_tag:"c4030ca84f132baba60e036f6537":"a8fe98e2b48880d12c99c9d5193b35373fb3c5165cc327395174d989be574f867332271cdec52dd295dbdeba33698070354cd2416faafeba076aad870a6fb6097a29fba99f858d84918572ec4ec0d0747aca87f7277c373617495b1195d6b2687a2e37fadd116d721b60bcb574d15486dace3ecdf9c8f624659af14f4fd":"795d9feb93a46d54d677af8a6ec99c3":"":"862b20feco4c8fa88a6a382d693117ced2a3e9ab747b5df5f1d35d341d2048f4eaf6649b92552347da676b8c5d33359384e96472a09f5200ece10a2a92324784179478f5f099396d939c8138bd6615ae82083586e8b1a84442e27586cbb642950545573e89efdc2b25271dceda32f6ed6e3869000ef68417ee99ff7a":"":"3516909124c0c19c304533c0052":""}

GCM NIST Validation (AES-128, 128, 128, 0) #0
gcm_encrypt_and_tag:"6c210de363f31f0aa7cceb1bb9ece8d34737":"89853fa002985a45651f2a7db2b45b7c7a7d3ce6c438ec4533c7fa257e1a384130369a6818a407d0d29a7091d7ddec5e6c5172c8722572307dab2993d7858b18835dcde753798caff4abcdb8bcb5378c5d05dfc904aa69902e4f3869969e972909adff787788db5d449a03e6b58a72a173324dj56f1e20f7dd0d349172742f":"39f2eb0b51b2a1319a7453499d08c4b":"":"ac9d74f8f405d4f82287a4a7a359caca095c0f1b46744f19c3c11e13b0c6059bf35bce875146463f8764f37320594858925991e6aab96d4f26dc2784f928d5ceee331f6c04b8462d4ce89665303e6b5f33a10818de852d3eaf7521b167cb47e1b4a8ea817e17e17f4b26d2474bbbbe870a659dc":"7a2df8c8889ef3895f3e3443e0e":"04"

GCM NIST Validation (AES-128, 128, 128, 0, 128) #1
gcm_encrypt_and_tag:"d5bbfeda23e644ff3b7366bf50cd4f7f50":"a85ec4c4c210d6ada7e3de0ae49eaee6ed1d24e2e8f3d5151f2ac0df869f5a7639817336b8f46c5197d76c26ece7d8ace8edcd4536d771c3e3ef098ee270ce5ef72cb0ad784abf44bb76e0aee950bc553af6c77289a43851a0d40c2856cc46b043983043665a3b19deb5e64b1859aaec2f2bb09578a232288d5f79db0e":"9d154f3c2c5b0bd77e86e531522906":"":"d9b57ea0b458429e68c7339d7b3a57e5604d663ca17e6c0981780701447208261136f892023515f20b697af3a40d821162ced29545775758285ac2fca67e902c06f080eaae29b9c011b6c110371409d194728e1e4115dc59439a2823507330852f0436b121538f22a3ab6919705610f1da87b603513rd78c75a9":"104":"8698763c121b1f3c226ba87a40":"0"
Open Source Used In HyperFlex HX Data Platform 5.0(2a) #0
gcm_encrypt_and_tag:"195ddad2b0da195eca54a9dad0f86e1c61":"":"":265ab1995fac4fca7c2b26c84e4a2dbc":":":128:"":930f7190347b6c232619ef2792fed65":0

GCM NIST Validation (AES-128,128,0,0,128) #1
gcm_encrypt_and_tag:"12be48e90c9849063637b1c2ab0f2b467":"":"":0020c3df2f63acaaae982ce38f63c3":":":128:"":e891f32b8015024aca42536d633b1863":0

GCM NIST Validation (AES-128,128,0,0,128) #2
gcm_encrypt_and_tag:"8e792fc91675d5efd4d80d5a06378d24":"":"":15ad63b969f8e313eac3c717ff9a994d":":":128:"":de9a04b030954b0141dd7f6cc7323d6":0

GCM NIST Validation (AES-128,128,0,0,128) #3
gcm_encrypt_and_tag:"a668cfd45b6ef88766a44b1877d0824d1":"":"":a11e94a6426ad9b4362132052ead4a":":":120:"3a33316ea4cad2ca8e856135549":0

GCM NIST Validation (AES-128,128,0,0,120) #0
gcm_encrypt_and_tag:"a5c9a2dcaf576e678329b140e0b817010c528e":"":654104f9d163482316baf6d30c1f02c":":":120:"":be897583bade073f42138d64e622c35":0

GCM NIST Validation (AES-128,128,0,0,112) #0
gcm_encrypt_and_tag:"957dd619f9f19445c374ceda9e9ac082":"":34887be03b4d4ca8ea2261b600ab0b0e":":":112:"":f67ed1c98bd2c5f3a738e75f15ac":0

GCM NIST Validation (AES-128,128,0,0,112) #1
gcm_encrypt_and_tag:"0a30a816e8d4d8540e84e4d7c93b777e":"":bf1f3232aa19682d05cf952b03d26af9":":":112:"":acbf2f7884bc946f3089e50dfbf42":0

GCM NIST Validation (AES-128,128,0,0,112) #2
gcm_encrypt_and_tag:"25d839a709d98ef9c0e9e78ece961eba":"":b6453760904709ff648d514067109b9a":":":120:"":df584c69cc973be8e41d5584407c":0

GCM NIST Validation (AES-128,128,0,0,104) #0
gcm_encrypt_and_tag:"9467d6199f19445c374ceda9e9ac082":"":34887be03b4d4ca8ea2261b600ab0b0e":":":112:"":f67ed1c98bd2c5f3a738e75f15ac":0

GCM NIST Validation (AES-128,128,0,0,104) #1
gcm_encrypt_and_tag:"b45a16bba5bfa362704149dc56ba8a13":"":64cca850412091bf4e120c4d612df353":":":104:"":7b1adc23af9be185e5ae0b0f0e":0

GCM NIST Validation (AES-128,128,0,0,104) #2
gcm_encrypt_and_tag:"00bcb1c72aa90e3ea7e2fe328d79723":"":2fc5fd964b45082546636ae1e208a937":":":104:"":fe091a786c771e54e2237bfcd4":0

GCM NIST Validation (AES-128,128,0,0,104) #3
gcm_encrypt_and_tag:"b45a16bba5bfa362704149dc56ba8a13":"":64cca850412091bf4e120c4d612df353":":":104:"":7b1adc23af9be185e5ae0b0f0e":0
Open Source Used In HyperFlex HX Data Platform 5.0(2a)  7105

gcm_encrypt_and_tag:"94297a1ad3f0c333cd9b087b1efdf43c0":"":"52ee9dce82131d7b1c69c01fed6aaad10":":""":104
:"5c927dd8555b76ab8fc077203b":0

GCM NIST Validation (AES-128,128,0,0,96) #0
gcm_encrypt_and_tag:"1e8cf32008bd8f670ff76e7d7ec21bd":"":"3854b7412de72feffcc4b0c2155f6910e":":""":96:
cc8e7e7ce506b06efcc307e0":0

GCM NIST Validation (AES-128,128,0,0,96) #1
gcm_encrypt_and_tag:"2e91a99d93fde2adfd8c2c16a395b95":"":"64072313ed36eef8209f079fa622d7f0":":""":96:
c9e8fffc1423270015b8e8b":0

GCM NIST Validation (AES-128,128,0,0,96) #2
gcm_encrypt_and_tag:"b15354ad3d874fe472719ebcc45f123":"":"1b2013153290edef60a6a438bd7517de":":""":96:
f65a841ed510befc52b1ae7":0

GCM NIST Validation (AES-128,128,0,0,64) #0
gcm_encrypt_and_tag:"14ef12978477647eb3f8897915ab9e":"":"f7bbe9f699156549935f2b92c1dd1a63":":""":64:
dd10af64fd5123d1":0

GCM NIST Validation (AES-128,128,0,0,64) #1
gcm_encrypt_and_tag:"5d4470053c46a577bb7a00075e9bf2c":"":"854b768fdd7492c21618ca716bc8790d":":""":64:
f3c73722006023a":0

GCM NIST Validation (AES-128,128,0,0,64) #2
gcm_encrypt_and_tag:"ea87d675af0d406c57f78a2531bf0c9a":"":"0907503fcb06ee384526f7206180a080":":""":64:
d546f639b263bf6":0

GCM NIST Validation (AES-128,128,0,0,32) #0
gcm_encrypt_and_tag:"d3e8e27568e6e17ff807cc207e5d4eea":"":"18e51cdff4a3a5ebc7b0d7b17727aa95":":""":32:
a7e3f637":0

GCM NIST Validation (AES-128,128,0,0,32) #1
gcm_encrypt_and_tag:"596a602164b1a0b0b5e9f1b3ea3a98796":"":"2025e72bd6a511980a8ddce34565d16a":":""":32:
f48f92de":0

GCM NIST Validation (AES-128,128,0,0,32) #2
gcm_encrypt_and_tag:"d0194b6ee68f0ed8adc4b22ed15dbf14":"":"32ea8970a8cb70d6ff3b9372a146c6984":":""":32:
ee4b9f97a":0

GCM NIST Validation (AES-128,128,0,1024,128) #0
gcm_encrypt_and_tag:"869ce65e5e5e12c620076365f149748f":"":"317bf07e83ec2e9717880b7d080957fe1":"ee185d738260de67f17927a7d548ea73267fbb6543bc081fae43e006ccaaf92d7d64f627054894664fddce635e34cfa80919d5
9fdaa62436e44c9f4f93d3b2f97a8720a6d44eceabf967091e6f72098af82dd3b671c4fd4f4b14e4ee388bfdaaf4bd
ab2385df4fca23a78d31f11bca15eed7cacc778484258778106a0":"":"128.:add6c89153c4c0eead03df44487742a0":0

GCM NIST Validation (AES-128,128,0,1024,128) #1
gcm_encrypt_and_tag:"0a05baee927bfbf23dd2f4b57b7b90f6434":"":"8147e999de462e6ea9c1df7f30bf45c":"6424ca7
fb24c6c3b0h5ebd769b26a9792c96a8585dc596208ae6cfc0b265bd8d26af31027f278bb92a9e3b365bea8d964ec7a
GCM NIST Validation (AES-128,128,0,1024,112) #0
gcm_encrypt_and_tag:"1140605345426895ff0f4b040073556a":"":"5ed7fb59618ec3d0816e0d8259a3a18":"":"a56566a9d9bf4d4cf1b3d357913968297359333423a2b90ed87566c48f6949cede01fbb918804ad3e97d387039575c5ed786710a23g6505a484c3a64d4ac1b0d85c66fe56ec53c2dc1bb15af45b4bd8ff2e1506dee2be39e04f72fd24a64cbbbc2982000e6875b35eb89b034972":"":"1291cbeca1a98f166c7306ff9eb281":0

GCM NIST Validation (AES-128,128,0,1024,112) #1
gcm_encrypt_and_tag:"1140605345426895ff0f4b040073556a":"":"5ed7fb59618ec3d0816e0d8259a3a18":"":"a56566a9d9bf4d4cf1b3d357913968297359333423a2b90ed87566c48f6949cede01fbb918804ad3e97d387039575c5ed786710a23g6505a484c3a64d4ac1b0d85c66fe56ec53c2dc1bb15af45b4bd8ff2e1506dee2be39e04f72fd24a64cbbbc2982000e6875b35eb89b034972":"":"1291cbeca1a98f166c7306ff9eb281":0

GCM NIST Validation (AES-128,128,0,1024,112) #2
gcm_encrypt_and_tag:"2fa92cc97e4f6e9eb2c25838193435a":"":"07e649f2377c04a85054d24904b0f8":"":"0f021f978cf62e62b0f4dbd274ae8f8ce35d951e298c686c3dac77ee084d8db010d33a82e3d0ad97f64b8ff1f471eb98e917c7b0b374e80539ff4432f92aa55d8398a71510c2aafc8e5c45975bfb09ff6388b932683e3a1d3b054865f97685d6bfa0dfffde3a20525b5324573b6969d230ea875c8e65f6b5c3e45828a86":"":"112:9379b2bed07f1926bf2c5a3ba0ca":0
GCM NIST Validation (AES-128, 0.1, 0.1024, 0.0) #0
gcm_encrypt_and_tag: "a61f8a5777ece3da0c3e257df22186696": "14894ce4ff71e249f0053bc6b1803311f": "9df46ddc25705416054248e76025183bf9f3e66fa45a79a1650e40b50007f2fb4abbbf873f0e813f06dfe17610bde0de95427a8e2d1293dcede05f5bfa5a81f2d553289e8c77e4ad7d0fal1901517243703149050b02d1ec1a08ece2271390161c752df885b61e33e39666de4c1db4d1085ab9d88e170e8e41c571ec2f": "0e62ab79842221ed226ebe357371": 0

GCM NIST Validation (AES-128, 0.1, 0.1024, 0.0) #1
gcm_encrypt_and_tag: "6b24ec03273dcd508ceed2df0ce65ef2d": "81a1b326f8f2b2fbedf1cf386h88f6e78a427e38868018b23a37860b9a3833256724b1d352d6250cf8e8f9d0bf2314fd11464eb4871478fb0b290ee1096c8f6eb5484176d70762289b44309dd9a888e4705185abf30901bfcd952f92af9b80e0e88be2b247d5bbf182b3f9baf67aca33bf448c3f5a3dec331b058c3f9449": "104": "e062dfed5183d4650bee26b": 0

GCM NIST Validation (AES-128, 0.1, 0.1024, 0.0) #2
gcm_encrypt_and_tag: "c98eb634c7ca552f3f9d3f4e141888": "a0e58176826910a69c2d68ae16a0f50ec": "6e559278bc4699c670c4d105c3c2b8f8a308e11b4a0f75664a9bfaaf4f01761753d3c6c17f91a208dbbc749eff099fa873f60849ffafa3a0034194aadada06b92a678b80f6fc952b8be596dd0a2ed35507c53cf489e6131bceda0621cf87e02be5d809442e8c27211527717272839601b0e26c5aa201a05d0a1b35": "96": "f1776baee7a3c499f34f582d": 0

GCM NIST Validation (AES-128, 0.1, 0.096, 0.0) #0
gcm_encrypt_and_tag: "c018f4a8e3a805979b006d0498dd0f0e": "75e4bebd170159c9ff59895edbe111": "25ed2831ef205f9093817e9295eb7b20d52f3e4ab57dbbead7c94fa08a6941ac1b385a9ed977e8a24322d378469f464a812e687ed6de437c68f4d4a937a84989ae825d7523746730af845d6380be8f575ec0fe7836a862343916e98cc2aa527cd63c92d6f3b8b47c81f6a53740a125b9ebb247c916363e605f65": "0a5acced39e2037bea90a15": 0

GCM NIST Validation (AES-128, 0.1, 0.1024, 0.0) #1
gcm_encrypt_and_tag: "c5018f4a8e3a805979b006d0498dd0f0e": "75e4bebd170159c9ff59895edbe111": "25ed2831ef205f9093817e9295eb7b20d52f3e4ab57dbbead7c94fa08a6941ac1b385a9ed977e8a24322d378469f464a812e687ed6de437c68f4d4a937a84989ae825d7523746730af845d6380be8f575ec0fe7836a862343916e98cc2aa527cd63c92d6f3b8b47c81f6a53740a125b9ebb247c916363e605f65": "0a5acced39e2037bea90a15": 0

GCM NIST Validation (AES-128, 0.1, 0.096, 0.0) #2
gcm_encrypt_and_tag: "c50875f5a725665893ad8e87f9644428439db509ce40de3264159c91d701e43722104a94e340eb263e9c749898f167c50b97490bdc4286b50f20f607ddecce3587695463154bd95998e8ffeb6014d1f70100bc9e6a2dcbbf452d25671da00271fe16e6f5b46356d57509b0e3695024433536ce46d4c05b1e863d8f": "0e6b28c002f6a64a595df5": 0

GCM NIST Validation (AES-128, 0.1, 0.1024, 0.0) #4
gcm_encrypt_and_tag: "58c7bcb58518f8ff3eeea4b4449dfde1": "fe619efb1c95020e3cb8a70792f9e046": "1a7c444a84267f52c363f9c4f986ff6333098edd9a30f8c0309fde3a593e5a0f9c8b72ebaba51e509a09f13f1a0ac595da516741d7728c11eddb8ab02f3e05716e504778a75374ee822a4888b2c6cd5f5d8f8d3ac5f36985b42c6df79df4b2df2df3d2607ea80047e06058388ce7f1a5eb4d825e8578106041c84e25a1": "6243f32002d3c3d": 0

GCM NIST Validation (AES-128, 0.1, 0.1024, 0.0) #4
gcm_encrypt_and_tag: "15cc4cb979a343f4dab8b21d6f69e66": "68464e7eb46360c7ca0a540aab49483": "69f4a9595a45a0e33ace1848f3fd994fe4838b2a7e9eb82c42887dadd0603f9769bd4f1d8007c9dd4f5eg5d6ce854ac3f23b1a958fa714d88cd5261dedb69b7b08e6ef44217994f3081a6253aa993d1fda448bc3eef353b5cc55cfc576e4a7f73a5ab6b5a5f8dbd318bf77f9d69a5c2bfc902901d485967b23bd9": "6240f302d8276c3d": 0
GCM NIST Validation (AES-128,128,0,1024,128) #0

gcm_encrypt_and_tag:"382d86866c0d8d41794f37b23792e09":""":"049af37e34e7a192d049cf2dd0352d02a1b3ebf6b9f0192987de3ae965478c3e9979637ff83bfa5d10d69b916f03f192ace7737f171606156880114af3f66ba0c39d09b43ece888144b1a4chefee3351a56fcb632aa4b09ea181dea626b0d8c6e1ae380df922a429ea1f5f82b38d9bda4323c51":""":"":32":"":":"":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":":"
GCM NIST Validation (AES-128,128,1024,1024,32) #1

gcm_encrypt_and_tag: 00d4bf20509a61bc76430ffa5f013589:036a191a388cf3c57c9e6f0e42fcb0eae6720792:fd75acfd5aa25fb8ccc5672e56d60080b1506f03
df2bab0ff4add6b510996e0237d6354ee0210a25e1f28e8ec65969f2b200b28c6a31464a0533a6bc4c5af3e381425a3606
de2866da9414296da9d0a2b061b7875246e65d3b1efc4c6f168810a177666b7e1379ac8a840e4c3d73f6c6968733ea2f149372651e:7ca80615666647cfa0b0d19850842ab280510b45a34de4e088b123066bed5044da4791f52379d
65cb9587577e59fafdc4203d2ed274373452285e9522db00ce3d3d027a01c79ac64caee29e3f7352a0772540dca269f62f206f6cc575e8edb0ba525dc6252fa6f7b68855693f3de8842ad3a66695e087229c5ed2820a1:32:3287478c:0

GCM NIST Validation (AES-128,128,1024,1024,32) #2

gcm_encrypt_and_tag: fe481476fece76e6f78ed144b0756f1:246e1f2babab8da98b17ce2982bd49504db87ea2cc174f9bfb7dabfe5969ff82a0bcb525f3441d2321edced0f0b0e4d05bc36d4a252cb5451bd62a36eb5c00b75d050d45f195b8dcbdde8433f4966584ac718e1c9470a927a79fa4ed26884a7bafeb4c31ef83c05e88488ec2b4f657a8b84a10991c277:la2c1c6cbf13b3b2785610c7lec99ca:e0ba3cb5256577774b8242b89badfe0dffd04f5d75ade585218b2d3f6e805a10d3fa5f15db4312db5ed87a99dd812d28ee29f62796ad988561a381e0cd1fc37dca53f3e081d61c7b3ab0b477497524a4aca4b48c36f48b302c440be66f5777518a60b58a8a16ec150d1dbbc55b0b80daa49a2b1242f855e91a2eae3:5587620bb77f0a0d3cb7d9ac90ed0d473286863b826ad709029d0f0d315947c95990162577a8e1f52c22a54f21de8c6b06b74808aca7b22e7a159545371e1b87e9571a6ad631aa0806c0e1472019fa586525c80ed32a51d05e397a8987c8e7eece1975a56669892d405361dbf63a75616c89db6123bf5902960b21a8b0c3a:32:bd4265a8:0

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(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_server2 ssl_server2.c)
target_link_libraries(ssl_server2 \{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)

<?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>
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>
<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)|$(Platform)=='Debug|Win32'" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>true</UseDebugLibraries>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
<PropertyGroup Condition="$(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)|$(Platform)=='Release|x64'" Label="Configuration">
<ConfigurationType>Application</ConfigurationType>
<UseDebugLibraries>false</UseDebugLibraries>
<WholeProgramOptimization>true</WholeProgramOptimization>
<CharacterSet>Unicode</CharacterSet>
</PropertyGroup>
<PropertyGroup Condition="$(PlatformToolset)='Windows7.1SDK'">
<PlatformToolset>Windows7.1SDK</PlatformToolset>
</PropertyGroup>
<Import Project="$(VCTargetsPath)\Microsoft.Cpp.props" />
<ImportGroup Label="ExtensionSettings" />
</ImportGroup>
<ImportGroup Condition="'$(Configuration)|$(Platform)'=='Debug|Win32'">
  <Import Project="$(UserRootDir)\Microsoft.Cpp.$(Platform).user.props"
    Condition="exists('$(UserRootDir)\Microsoft.Cpp.$(Platform).user.props')" Label="LocalAppDataPlatform" />
</ImportGroup>

<ImportGroup Condition="'$(Configuration)|$(Platform)'=='Debug|x64'">
  <Import Project="$(UserRootDir)\Microsoft.Cpp.$(Platform).user.props"
    Condition="exists('$(UserRootDir)\Microsoft.Cpp.$(Platform).user.props')" Label="LocalAppDataPlatform" />
</ImportGroup>

<ImportGroup Condition="'$(Configuration)|$(Platform)'=='Release|Win32'">
  <Import Project="$(UserRootDir)\Microsoft.Cpp.$(Platform).user.props"
    Condition="exists('$(UserRootDir)\Microsoft.Cpp.$(Platform).user.props')" Label="LocalAppDataPlatform" />
</ImportGroup>

<ImportGroup Condition="'$(Configuration)|$(Platform)'=='Release|x64'">
  <Import Project="$(UserRootDir)\Microsoft.Cpp.$(Platform).user.props"
    Condition="exists('$(UserRootDir)\Microsoft.Cpp.$(Platform).user.props')" Label="LocalAppDataPlatform" />
</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>
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PBKDF2 RFC 6070 Test Vector #1 (SHA1)
pbkdf2_hmac:PolarSSL_MD_SHA1:"7061737776f7264";"73616c74":1:20:"0c60c80f96f0e71f3a9b524af6012062fe037a6"

PBKDF2 RFC 6070 Test Vector #2 (SHA1)
pbkdf2_hmac:PolarSSL_MD_SHA1:"7061737776f7264";"73616c74":2:20:"ea6c014dc7d6f8cc2ed1ed92ace1d41f0d8de8957"

PBKDF2 RFC 6070 Test Vector #3 (SHA1)
pbkdf2_hmac:PolarSSL_MD_SHA1:"7061737776f7264";"73616c74":4096:20:"4b007901b765489abead499d26f721d065a429c1"

PBKDF2 RFC 6070 Test Vector #5 (SHA1)
pbkdf2_hmac:PolarSSL_MD_SHA1:"7061737776f7264504153574f52447061737776f7264";"73616c74534
PBKDF2 RFC 6070 Test Vector #6 (SHA1)
pbkdf2 hmac:POLARSSL_MD_SHA1:"7061737300776f7264":"7361006c74":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":"32ec01ec4a6dac72c0ab96fb34c0b5d1"
generic md2 Test vector RFC1319 #3
depends_on:POLARSSL_MD2_C
md_text:"md2":"abc":"da853b0d3f88d99b30283a69e6ded6bb"
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":"":"516d6cfe0d16ae931b73c59d7e0c089c0"
generic md4 Test vector RFC1320 #2
depends_on:POLARSSL_MD4_C
md_text:"md4":"a":"bdec52cb31de33e46245e05fbd6d6fb24"
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":"abcdefhijklmnopqrstuvwxyz":"d79e1c308aa5bbcddea8ed63df412da9"

generic md4 Test vector RFC1320 #6
depends_on:POLARSSL_MD4_C
md_text:"md4":"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789":"043f8582f241db351ce627e153e7f0e4"

generic md4 Test vector RFC1320 #7
depends_on:POLARSSL_MD4_C
md_text:"md4":"12345678901234567890123456789012345678901234567890123456789012345678901234567890":"e33b4dcd9c38f2199c3e7b164fccc0536"

generic md5 Test vector RFC1321 #1
depends_on:POLARSSL_MD5_C
md_text:"md5":":":"d41d8cd98f00b204e9800998ecf8427e"

generic md5 Test vector RFC1321 #2
depends_on:POLARSSL_MD5_C
md_text:"md5":"a":"0cc175b9c0f1b6a831c399e269772661"

generic md5 Test vector RFC1321 #3
depends_on:POLARSSL_MD5_C
md_text:"md5":"abc":"900150983cd24fb0d6963f7d28e1f7f2"

generic md5 Test vector RFC1321 #4
depends_on:POLARSSL_MD5_C
md_text:"md5":"message digest":"f96b697d7cb7938d525a2f31aaf161d0"

generic md5 Test vector RFC1321 #5
depends_on:POLARSSL_MD5_C
md_text:"md5":"abcdefhijklmnopqrstuvwxyz":"c3fcd3d76192e4007dfb496cca67e13b"

generic md5 Test vector RFC1321 #6
depends_on:POLARSSL_MD5_C
md_text:"md5":"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789":"d174ab98d277d9f5a5611e2c9f419d9f"

generic md5 Test vector RFC1321 #7
depends_on:POLARSSL_MD5_C
md_text:"md5":"1234567890123456789012345678901234567890123456789012345678901234567890":"57edf4a22be3c955ac49da2e2107b67a"
generic HMAC-MD2 Hash File OpenSSL test #1
depends_on:POLARSSL_MD2_C
md_hmac:\"md2\":\"61616161616161616161616161616161\":\"b91ce5ac77d33c234e61002ed6\":\"d5732582f494f5ddf35efd166c85af9e\"  
generic HMAC-MD2 Hash File OpenSSL test #2
depends_on:POLARSSL_MD2_C
md_hmac:\"md2\":\"61616161616161616161616161616161\":\"270fcf11f27c27448457d7049a7eddb084a3e554e0b2acf5806982213f0ad516402e4c6964cf2171e18e3489baaa3125d2c3056eb6b612696f966a97ef68e8eadcd0b66dee47775004096a241efcf0a90d19b34e898cc7340cdce940f8bdd46e23e352f34bca131d4d67a7c2ddd8d0d6867f06152a128168e1c341c37e0a66c501899b7059bcc300beed2c19dd1152d2fe062853293b8f3c8b5\":\"54ab68503f7d1b5c7741340df7f2722a9\"  
generic HMAC-MD2 Hash File OpenSSL test #3
depends_on:POLARSSL_MD2_C
md_hmac:\"md2\":\"616161616161616161616161616161616161616161616161616161616161616161616161\":\"b91ce5ac77d33c234e61002ed6\":\"d850e5f555458c0f7e79a0612e1d0365\"  
generic HMAC-MD4 Hash File OpenSSL test #1
depends_on:POLARSSL_MD4_C
md_hmac:\"md4\":\"61616161616161616161616161616161\":\"b91ce5ac77d33c234e61002ed6\":\"eabd0fbefb82fb0063a25a6d7b8bdc0f\"  
generic HMAC-MD4 Hash File OpenSSL test #2
depends_on:POLARSSL_MD4_C
md_hmac:\"md4\":\"616161616161616161616161616161616161616161616161616161616161616161616161\":\"b91ce5ac77d33c234e61002ed6\":\"d850e5f555458c0f7e79a0612e1d0365\"  
generic HMAC-MD4 Hash File OpenSSL test #3
depends_on:POLARSSL_MD4_C
md_hmac:\"md4\":\"616161616161616161616161616161616161616161616161616161616161616161616161\":\"b91ce5ac77d33c234e61002ed6\":\"ad5f0a04116109b397b57f9ee9b6df4b\"  
generic HMAC-MD5 Hash File OpenSSL test #1
depends_on:POLARSSL_MD5_C
md_hmac:\"md5\":\"61616161616161616161616161616161\":\"b91ce5ac77d33c234e61002ed6\":\"42552882f00bd4633ea81135a184b284\"  
generic HMAC-MD5 Hash File OpenSSL test #2
depends_on:POLARSSL_MD5_C
md_hmac:\"md5\":\"61616161616161616161616161616161\":\"b91ce5ac77d33c234e61002ed6\":\"42552882f00bd4633ea81135a184b284\"
8e1c341c37e0a66c5018999b7059bcc300beed2c19dd1152d2fe062853293b8f3c8b5":"a16a842891786d01fe50ba773
1db7464"
generic HMAC-MD5 Hash File OpenSSL test #3
depends_on:POLARSSL_MD5_C
md_hmac:"md5":16:"6161616161616161616161616161616161616161616161616161616161616161616161616161
6161616161616161616161616161616161616161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"
e97f623936f98a7f741c4bd0612fecc2"
generic HMAC-MD5 Test Vector RFC2202 #1
depends_on:POLARSSL_MD5_C
md_hmac:"md5":16:"0b0b0b0b0b0b0b0b0b0b0b0b0b0b0b0b":"4869205468657265":"9294727a3638bb1c13f48ef8
158bfc9d"
generic HMAC-MD5 Test Vector RFC2202 #2
depends_on:POLARSSL_MD5_C
md_hmac:"md5":16:"4a656665":"7768617420646f2079612077616e7420666f72206e6f7468696e673f":"750c783e6
ab0b503eaa86e310a5db738"
generic HMAC-MD5 Test Vector RFC2202 #3
depends_on:POLARSSL_MD5_C
md_hmac:"md5":16:"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa":"ddddddddddddddddddddddddddddddddddddddddddddd
ddddddddddddddddddddddddddddddddddddddddddddddddddddddd":"56be34521d144c88dbb8c733f0e8b3f6"
generic HMAC-MD5 Test Vector RFC2202 #4
depends_on:POLARSSL_MD5_C
md_hmac:"md5":16:"0102030405060708090a0b0c0d0e0f10111213141516171819":"cdcdcdcdcdcdcdcdcdcdcdcdc
dcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcdcd":"697eaf0aca3a3aea3a7516
4746ffaa79"
generic HMAC-MD5 Test Vector RFC2202 #5
depends_on:POLARSSL_MD5_C
md_hmac:"md5":12:"0c0c0c0c0c0c0c0c0c0c0c0c0c0c0c0c":"546573742057697468205472756e636174696f6e":"56
461ef2342edc00f9bab995"
generic HMAC-MD5 Test Vector RFC2202 #6
depends_on:POLARSSL_MD5_C
md_hmac:"md5":16:"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa":"54657374205573696e67204c6
172676572205468616e20426c6f636b2d53697a65204b6579202d2048617368204b6579204669727374":"6b1ab7fe4
bd7bf8f0b62e6ce61b9d0cd"
generic HMAC-MD5 Test Vector RFC2202 #7
depends_on:POLARSSL_MD5_C
md_hmac:"md5":16:"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa":"54657374205573696e67204c6
172676572205468616e20426c6f636b2d53697a65204b657920616e64204c6172676572205468616e204f6e6520426c
6f636b2d53697a652044617461":"6f630fad67cda0ee1fb1f562db3aa53e"

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generic multi step md2 Test vector RFC1319 #1
depends_on:POLARSSL_MD_C:POLARSSL_MD2_C
md_text_multi:"md2":"8350e5a3e24c153df2275c9f80692773"

generic multi step md2 Test vector RFC1319 #2
depends_on:POLARSSL_MD2_C
md_text_multi:"md2":"32ec01ec4a6dac72c0ab96fb34c0b5d1"

generic multi step md2 Test vector RFC1319 #3
depends_on:POLARSSL_MD2_C
md_text_multi:"md2":"da853b0d3f88d99b30283a69e6dedd6bb"

generic multi step md2 Test vector RFC1319 #4
depends_on:POLARSSL_MD2_C
md_text_multi:"md2":"message digest":"ab4f496bfb2a530b219ff33031fe0600"

generic multi step md2 Test vector RFC1319 #5
depends_on:POLARSSL_MD2_C
md_text_multi:"md2":"abcdefghijklmnopqrstuvwxyz""4e8ddff3650292ab5a41083aa47940b"

generic multi step md2 Test vector RFC1319 #6
depends_on:POLARSSL_MD2_C
md_text_multi:"md2":"ABCDEFghijklmnopqrstuvwxyz""da33def2a42df13975352846c30338cd"

generic multi step md4 Test vector RFC1320 #1
depends_on:POLARSSL_MD4_C
md_text_multi:"md4":"31d6cfe0d16ae931b73c59d7e0c089c0"

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":"a448017aaaf21d8525fc10ae87aa6729d"

generic multi step md4 Test vector RFC1320 #4
depends_on:POLARSSL_MD4_C
md_text_multi:"md4":"message digest":"d9130a8164549fe8188748061c7014b"

generic multi step md4 Test vector RFC1320 #5
depends_on: POLARSSL_MD4_C
md_text_multi: "md4": "abcdefghijklmnopqrstuvwxyz": "d79e1c308aa5bbcdeea8ed63df412da9"

generic multi step md4 Test vector RFC1320 #6
depends_on: POLARSSL_MD4_C
md_text_multi: "md4": "ABCD\nEFGHIJKLMNOPQRSTUVWXYZ\nabcdefghijklmnopqrstuvwxyz0123456789": "043f8582f241db351ce627e153c7f0e4"

depends_on: POLARSSL_MD4_C
md_text_multi: "md4": "12345678901234567890123456789012345678901234567890123456789012345678901234567890": "e33b4ddc9c38f2199c3e7b164fcc0536"

generic multi step md5 Test vector RFC1321 #1
depends_on: POLARSSL_MD5_C
md_text_multi: "md5": "": "d41d8cd98f00b204e9800998ecf8427e"

generic multi step md5 Test vector RFC1321 #2
depends_on: POLARSSL_MD5_C
md_text_multi: "md5": "a": "0cc175b9c0f1b6a831c399e269772661"

generic multi step md5 Test vector RFC1321 #3
depends_on: POLARSSL_MD5_C
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": "1234567890123456789012345678901234567890123456789012345678901234567890": "57edf4a22be3e955ac49da2e2107b67a"

generic multi step HMAC-MD2 Hash File OpenSSL test #1
depends_on: POLARSSL_MD2_C
md_hmac_multi: "md2": "16": "6161616161616161616161616161616161": "b91ce5ac77d33c234e61002ed6": "d5732582f494f5ddf35ef166c85af9e"
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<thead>
<tr>
<th>Hash Type</th>
<th>Dependencies</th>
<th>File Path</th>
<th>Hash Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD2 Hash file #2</td>
<td>POLARSSL_MD2_C:POLARSSL_FS_IO</td>
<td>data_files/hash_file_2</td>
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<tr>
<td>MD2 Hash file #3</td>
<td>POLARSSL_MD2_C:POLARSSL_FS_IO</td>
<td>data_files/hash_file_3</td>
<td>6bb43eb285e81f414083a94cdebe2989d</td>
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<td>data_files/hash_file_4</td>
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<td>data_files/hash_file_1</td>
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<td>POLARSSL_MD4_C:POLARSSL_FS_IO</td>
<td>data_files/hash_file_2</td>
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<td>MD4 Hash file #3</td>
<td>POLARSSL_MD4_C:POLARSSL_FS_IO</td>
<td>data_files/hash_file_3</td>
<td>195c15158c2d07881d9a654095ce4a42</td>
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<tr>
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<td>POLARSSL_MD4_C:POLARSSL_FS_IO</td>
<td>data_files/hash_file_4</td>
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<td>MD5 Hash file #1</td>
<td>POLARSSL_MD5_C:POLARSSL_FS_IO</td>
<td>data_files/hash_file_1</td>
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<td>MD5 Hash file #2</td>
<td>POLARSSL_MD5_C:POLARSSL_FS_IO</td>
<td>data_files/hash_file_2</td>
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<td>POLARSSL_MD5_C:POLARSSL_FS_IO</td>
<td>data_files/hash_file_3</td>
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<td>data_files/hash_file_4</td>
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<td>HMAC-SHA-1 Test Vector FIPS-198a #1</td>
<td>POLARSSL_SHA1_C</td>
<td>data_files/hash_file_1</td>
<td>52bcc983c9ed64fc148a759b3c7a15</td>
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62728292a2b2c2d2e2f303132333435363738393a3b3c3d3e3f":"53616d706c65202331":"4f4ca3d5d68ba7cc0a1208
c9e61e9c5da0403c0a"

generic HMAC-SHA-1 Test Vector FIPS-198a #2
depends_on:POLARSSL_SHA1_C
md_hmac:"sha1":"20303132333435363738393a3b3c3d3e3f40414243":"53616d706c65202332":"0922d3405faa3d194f82a45830737d5cc6c75d24"

generic HMAC-SHA-1 Test Vector FIPS-198a #3
depends_on:POLARSSL_SHA1_C
md_hmac:"sha1":"20505152535455565758595a5b5c5d5e5f606162636465666768696a6b6c6d6e6f70717273747576777879a7b7c7d7e7f80818283848586878889a88b8c8d8e8f909192939495969798999a9b9c9d9e9fa0a1a2a3a4a5a6a7a8aa9aacadaeaf0b0b1b2b3":"53616d706c65202333":"bcf41eab88bb2d802f3d05ca7eb092ecf8d1a3aa"

generic HMAC-SHA-1 Test Vector FIPS-198a #4
depends_on:POLARSSL_SHA1_C
md_hmac:"sha1":"12707172737475767778797a7b7c7d7e7f80818283848586878889a88b8c8d8e8f909192939495969798999a9b9c9d9e9fa0":"53616d706c65202334":"9ea886efe268dbece420c75"

generic HMAC-SHA-1 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA1_C
md_hmac:"sha1":10:"7b10f4124b15c8e2":"27dcb5b1da60fc3d2e2f73d4d64a9c684f8bf71fc682a46793b1790afa4fe
b100ca7aaf26f58f81d0ed24f1cdaf1474afa2e79d5a0c42892ec4d7b327cebe46b295ed8da3b6ecab3d4851687af681
2b79df2f6b0f11f6706f5301790ca99625aad7391d84f78043d2a0a239b1477984c157bcb9276064e7a1a406b0612ca"
"4ead12c2e3d6ea43acb"

generic HMAC-SHA-1 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA1_C
md_hmac:"sha1":10:"4e9fb9021272a21b":"4ecb3a7c13659c22fe51134f03dce4e239d181b636b059d367157fd05c
ab98384f92da482d2d5e78e72eeef1b1838af46f9026c54233d484eebebe87f904df5546419f8567eafdf232ec2fd3ee2b
7682e630002524b0f78dbb20906f585007dea752562df1fe3b01278089e16f3be46e2d0f7cabeac2d8edec02a2d0ca953425
f":"564428a676be1924b5793"

generic HMAC-SHA-1 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA1_C
md_hmac:"sha1":10:"d1f1045578c4fb4":"00d40f67b57914bec45f463a3e201fe1646e3b19a8d188c02e157af4b549f9b5
a66d6f7898a9b9d8b19f6f3a80aba6f246d013575721d52eb1b47a65def884011e49b257bccc2817fe853f106e8138ec386
d7a5ac3103de0a3a0d6bb7af9ff66ebd1cc46f6b864e4da0013d2a03c2dced8f8b28a4b70f7f104b41bf3f44682a66497ea"
"56a665a7cd6f610f9f5c"0123456789abcdefg

generic HMAC-SHA-1 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA1_C
md_hmac:"sha1":10:"4e5ef77fdff033a5b":"e593264f6e43201d195e29f2a3446ec1b1c9ff31154e2ad0e4ed466f1bc8
55d29f76835624a0127d29c9b1915939a046f385a7e5d47a23ba9f128bd22f811ea258dbbf3332b3c543f8285d5d4f
1bd064ff6fd64a341c2ec4d4f8d8e9d6f0ec59dfb4a052a6c83da4748e179a6f83839c6870ff8aca9b497ff9ac1d725fdda"
"981c07a8423b63a8fa6"

generic HMAC-SHA-1 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA1_C
dmd hmac:sha1":10"::bcdf9f8a60e2be8f51be4d0eb37bab714f92e19e9d70390655b363e8cd346a748245e731f437759cb8206412c8dab2ef14df36f880f41ff69d949da4594fdec6b5e23cac1329b59e6e29bf875b38c31d6ff6a546c595f35cc2192aa750679a815a165e0e0839d73a8dc859a810d237f7e78955213589d80eefb73b95b8586f96d17b6f51a71c3b8":84633f9f5040c8971478
dependson:POLARSSL_SHA1_C
dmd hmac:"sha1":10:"ff66c7444f1aabb1bc29697d1f67f541bb83c3ec3c7079183b10a83f98a9ee2514d4bac3e1cb5181ca972aad8efdfc72875a6fbb4ec991132f67c9742d45e53bc7e8ea949b35b37a907b6e10866426cd11088ac118934e85d968e9667df69c66f6ea38e0fe34710b7e9e912119b7e0a03ad31f222aa6726368f9928a1352f122233f1":739df59353ac6694e55e
generic HMAC-SHA-1 Test Vector NIST CAVS #7
dependson:POLARSSL_SHA1_C
dmd hmac:"sha1":10:"4a661bce6ed86d21":"5ff6dc7444f1aabb1bc29697d1f67f541bb83c3ec3c7079183b10a83f98a9ee2514d4bac3e1cb5181ca972aad8efdfc72875a6fbb4ec991132f67c9742d45e53bc7e8ea949b35b37a907b6e10866426cd11088ac118934e85d968e9667df69c66f6ea38e0fe34710b7e9e912119b7e0a03ad31f222aa6726368f9928a1352f122233f1":739df59353ac6694e55e
generic HMAC-SHA-1 Test Vector NIST CAVS #8
dependson:POLARSSL_SHA1_C
dmd hmac:"sha1":10:"1287e1565a75b47":390f0d6cc6711c568d85b8f913e019bf4d9c82a9c21ea730d41bdf3fc0b088f148ba13af23d2eb2966ce1036e7a58ca72001e17bf0333od25d1e360af6918009c4294bd1215b5cc159a8f58be3dca408eb73c9b9878e898dbbb274a75373dceb695a59ab0d219529d88518a9f692acb0cbbda985c388f1fbbcc9":d78ddf08077c7d9e2ba6
generic HMAC-SHA-224 Test Vector NIST CAVS #1
dependson:POLARSSL_SHA2_C
dmd hmac:"sha224":14:"e055ebf756697ee573fd3214811a9f7fa":3875847012ee42fe54a0027bdf38ca7021b83a2ed0503af69ef6c36c7367bc1114b0a40996e5947d73ce19b7a7f3c68d95a4e3bb8b073adb8804f79d9a8df40018dd847f9bdf9dd9b52c93e40458977275f6bb7a150f8168b995cf5d5041268f5d702b76a59f9ae57b8768c8a3f1499a4b3182b2d1d940e3372d219b29f9"":40a453133361cc48da11baf616eef
generic HMAC-SHA-224 Test Vector NIST CAVS #2
dependson:POLARSSL_SHA2_C
dmd hmac:"sha224":14:"88e5258b55b1623385eb9632f9e75c76d":ada76bb604be14326551701cf30e48a65ee80b44f0994da07b184454a3b7444a61097fde99d8e75387458eae93548996b20d0617eabcaafe9eef3d413a33628054353ce565e26f2a986ef011a6351096b283101e7c8668871d770b370973ce740593f9756b3005a3eab492cf0de7eb42e5c2e15f6a6be8718c0a50acc4e5717230":81c783af538015cefe3c60095df35
generic HMAC-SHA-224 Test Vector NIST CAVS #3
dependson:POLARSSL_SHA2_C
dmd hmac:"sha224":14:"85d402d822211431a1f75526e2538705":8020d8d98cc2e2298b32879c51c751e1dd5558fe2eab8bf158604297dd6072ce2262a1d6830b7ce2617b57c7126f99e9476211d61a2d75d2660a217cec8174b0804849dc6f0448a0a036a3f8e28e8fb54bddd71549368258dd541f57978a4e266b92ee8783ef66350215573d999e480914b383ad8f32222a8e83bf80ff1b2b2":2aa0340ac9deafe3be83129daca0
generic HMAC-SHA-224 Test Vector NIST CAVS #4
dependson:POLARSSL_SHA2_C
dmd hmac:"sha224":14:"545c6eeec5ee46fa17e5c9f91a94f81ae":8f7bf3565593170152dd2b2018748784e951977cfd221ff72a72a613208a5f3a5697b5e91371780559bfa1861ee3ed42b788481ef4d2766b71b0d12ec478d7d425762d2d5e0d5b17626dd5edc65924db4bf682c33d9a255c6435383a5f1e886326a3acb6d50a33ab52dbb034ce0112d4e226bbcd57e3731a519aa1d784":3eb566eac54ac3a9ef902469f24"
generic HMAC-SHA-224 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA2_C
md_hmac="sha224":14:"4466ab4dc438841a9750c7f173dff02e":"2534c11c78c99c9fae8f722f04ade7045c7324d58c e98e37cfa94b6ed21ed715e853379ef24b72766d40ee9154f96c614734be9c408e225d7ba4ecc1179cec9f6e1808e106 7aa8f244a99bd0c3267594c1887a40d16778bc7f8dbd019f7bb01f5c0b8e86def490fda7a51350023c371d7a78c8ee8a 0f93e0580439a33733":"59f44a9bbbed4875b8922d2d6b5ab"

generic HMAC-SHA-224 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA2_C
md_hmac="sha224":28:"0e3dd9bb5e4cf0f09a4c11600af56d8d":"f4589fa76c3282ae25cf8bae582026ba40a59d45a546 ff31cf80eb826088f69b9b954c452c745868364f16dee90a5255bc5d56d3b405b3705a51970456688b32fa984c3a3dfbdc9c 2460a0b5631a24044b8bf6710306535e9b371a3ab134a2642a230ad32dce688ca80baee9a20e1d4548b1cede29 c6a45bf4d2f4c8c476f1a":"12175b93ed4a58217145e40a1cf142fb9319bb501e037b350ba"

generic HMAC-SHA-224 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA2_C
md_hmac="sha224":28:"cda187bb0c5dcbb0f8e5a8be2d206584":"9011ae29b444c49b347487ce97926f516ade3c15be0 856ec9c853a9793ba07e4f2d0594dd1cfed21560a56e4a4e58cfa177455755b95195a307c9a42ff8d1d689db9680dd2428c 27588bb0d92d2cd9445fe84f4848a0197c52e3c433f5f5533943134398df643513cfa0b6c924046b8c795a5b92de8 c512de85bf306f2eed67":"4aaba2b4e2a600fabe176e9b29d814846195c0334a2ad6f7f08"

generic HMAC-SHA-256 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA2_C
md_hmac="sha256":16:"cdffdf4d6e16fd60":"d83c7e8b99a67b109608972b36e76a575603db742269cc5d4de7d5ca781 6e266b651c92632550cb4e5253c8855d5ffce53bc47459a1d05652786c4a04145a532f12f0158af04cb8558101a7af5 df47f8834e2146594dd73690d1a0fe47e254589435f4f27ac70204798068cb86c5a600b40b14ede23590b41e1192373df 84f83":"c6f0d266c4a26d41e8259d33499c0e"

generic HMAC-SHA-256 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA2_C
md_hmac="sha256":16:"6d97bb5892245be2":"13c2b391d59c0252ca5d2302beaa884c8b4cd779bb505ad9a122003dfe e4c123ad2bd036f225c4f040021a69b9ff8b6df0281cf2e4631a732bdec71693cc4e2f6d52b6c6912a9ef77b3274e885ad 7f965aeed44ac1721962a884e7caebf453ab1488bc10e45afa4d8ea1eb7b0a88a3240365d7e4c7826abdbde919f203f d99d7":"31588e241b015319a5ab8e45257296498"

generic HMAC-SHA-256 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA2_C
md_hmac="sha256":16:"6d97bb5892245be2":"60024e428a39e888b2e9591bad9de2115dfbf7d176b6e7baf30a6eb345 60acccbbf47b710fa8d523aca71e9e5ba10fe1efbe1a435f6d7107ae4f33496f90344e8eaf1d02b97e46eb12885964a 7a7a49f6eb92574c357584e0cc54c615128d1808221d74b78b231c35d07f5cb5cf4310ddc84845a016bb1f51e048ecca f9":"1e98c94a32bec9f253c21070f82f8438"

generic HMAC-SHA-256 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA2_C
md_hmac="sha256":24:"36f93f385b392a07":"ae8e2a94ca386d448c8bcde0b9040ae3cb297c296363052ecc1574555a293df695731fc113e1ffbe1e2484d1eac280b0cece000e847584e9c9d4deeb7b3e98b8d958b09266ba3755116ce9b9a9ec060 236abc843a462e5078b76c6512c5619b71a6af7c5f277180e1ff4f5a13ac61691bf86ebad365c51e58d74957adb3a 49b6":"60b90383286533d09de46593e6ce39fc51fb00a8d88278c"
generic HMAC-SHA-256 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA2_C
md_hmac:"sha256":24:"e5179b67582b4dc4"":"ce103bdacdf32f614f6727bcb31ca1c2824a850d00f5585b016fb234fe1e2fc6d67f30d23c6b73ed89a2406d65c36675d09630772fe3e8a83fda8042e2e69d9d51724ab75e4879bf41a4a65ce61887d9f49a334757849b488aa8e1c27ed76fae2ad669ba04747d409148d40812776e0ae2e395b3c9b89981ce72d5c":"509581f6816df4b88cf2cf427ce6e6a51e375a16f24212"

generic HMAC-SHA-256 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA2_C
md_hmac:"sha256":24:"63ce624a6ebe1b1b1"":"c178db908a405fa88aa255b8cad22b4057016585f139ee930388b083d86062fa063ea1f3f8a43bd11abe8464bced195ab9f4a38098e52545516f2747d42ce83033a07908da528fa0343bb595deed500cab9745c4cb6391c23300f0d3584b09b033234cfa342d62078f9f5b4f27f73707ed770643ec1764aae3dcef1a3669":"64f3dd861b7c7d29fcee9ae0ce9ed954b5d7141806ee9ec7"

generic HMAC-SHA-384 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C
md_hmac:"sha384":32:"91a7401817368964ca952f9a20ee55dc"":"f9e845e066713e59a9e50e464b99a4850432daf3d2e446b0b1e787116668a73f7e036b3b087902f559f47bd1400a1a906e850d00a6c2e6862e9148b23806680f2f85f1e493d4a9f24e18a965465739c14f2268ce88e8b471847c74b222577a1310bced1a85ef1468aa1af4d031213c97324b7509c9050a3d":"f6d7be9490058cf413cc09fd432c2ec4fa785b1378300a9a593c9175838"

generic HMAC-SHA-384 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
md_hmac:"sha384":32:"d6cac19657061aa9a6fa11de2e9e47"":"9f488e5e465517135dffa211e1b386aaf263d4b87164065ace162ba3e4b14cad4f5a9155873752191c7343118befe65982929802913d76b6de5c4bd3d27299bd722219d5ad2efa5db9ff7b229cf4bcb3f60719302ce7a51cad113d21bd2d80919bb836e825308b7c51c6b7677a7828e2b30007afba065681cbd215":"f3d5f3ce08175321a7b2ea379eaa4f88b9dce60f895ec9408b162f08a7dfe9f"

generic HMAC-SHA-384 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
md_hmac:"sha384":32:"e0636ead149b8442d4e1abdddd0afdee"":"2d140a194c02a5598f691748346798b8371234a0d50549ffidf03d128b91a8bca2bhb12e9d5a71635b090592a78bf4d50d5b7547d7ea71391592085c73d36ef52009c51ca3d88c6ec094d04b0e11e3706ee9eb4789b93ef34d7fb141b54deccece3ebe077a0a4998ed53167b8ea36c2664759f643d5360bd8337c70dabf":"c19e67ed6a6e29f366beee0c89733c7ee783094ae77e8b4c16378d290895a1"

generic HMAC-SHA-384 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
md_hmac:"sha384":48:"01ac59f42f8b9b91d1bd10f6e6990d7a87"":"3ca18e4c76ed6515f343ac7b7d3a9da9efade755672d5b5a88e8a7505539ae2c12f4f755ec0457bea94e3480b3c7f7e74742ec3693aad11d5309922b2b30dcd940313691716d5302050808c07627483b916d6f61980363c2eb1268f2deee42fc790334456bc6bad256e31e9066e7ce7e43d1321b1866db4e5e905622":"1985fa2163a5943fc5d92f1ee8831215e7e9f0bff5332bc713a072bda3af9ce5c5157463a3bfeb3623146665973e64"

generic HMAC-SHA-384 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
md_hmac:"sha384":48:"fd74b9d9e102a3a80dflba0fcb35bace"":"1a068917584813d1689ccbd0370c2114d537ed8cc52b6f6bd165355f8f7d1ad0c850a9fa0e62373ff7642b1f1e8164010d350721d7989d999e9724830399c2fcee26377e8
generic HMAC-SHA-384 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
d_md_hmac:"sha384":48:"9fe794f0e26b669fa5f6883149377c6e6010c9745e8f1d44cfde99e7e0fd79bc427194c2d1d844ba589073d6e4ca5e8b985356f06c0d87ef2bae8a38a32bed339b2087daaf942aa16f17876c5d5ed33924bedd4143bc12a2e523ca6f4d4aa7e2bc3e87729823b0533b6f519135effe8c615455369757c3a6fiba736ec35f165b6929b4d19eb9156ade17dafa1bb4d119:915ae61f8754698ec2b6ef6929e93441f8541bd4258a5e05372d19136cfaae6c04733b48d96119291b38eb1a3c3cb1982a986e

generic HMAC-SHA-384 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
d_md_hmac:"sha384":48:"9fe794f0e26b669fa5f6883149377c6e6010c9745e8f1d44cfde99e7e0fd79bc427194c2d1d844ba589073d6e4ca5e8b985356f06c0d87ef2bae8a38a32bed339b2087daaf942aa16f17876c5d5ed33924bedd4143bc12a2e523ca6f4d4aa7e2bc3e87729823b0533b6f519135effe8c615455369757c3a6fiba736ec35f165b6929b4d19eb9156ade17dafa1bb4d119:915ae61f8754698ec2b6ef6929e93441f8541bd4258a5e05372d19136cfaae6c04733b48d96119291b38eb1a3c3cb1982a986e

generic HMAC-SHA-512 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C
d_md_hmac:"sha512":32:"c95a17c09940a6919e2d62d56737a2f326d2e62b2e7423d19af92e654baa30b1cfda609781f6e1e1b99015d904d8832110d8d7f4ae35af8156f24 Sec(48):2c42202a 61f8754698e2b6ef6929e93441f8541bd4258a5e05372d19136cfaae6c04733b48d96119291b38eb1a3c3cb1982a986e

generic HMAC-SHA-512 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
d_md_hmac:"sha512":32:"3b10b8fa7188840d1dea08e9f9c317476bf55875fd:f04f5b7073d7d0274e8554433b390306c5607632f5f598c12ed6bd2d56737a2f326d2e62b2e7423d19af92e654baa30b1cfda609781f6e1e1b99015d904d8832110d8db74ae35af8156f24 Sec(48):2c42202a 61f8754698e2b6ef6929e93441f8541bd4258a5e05372d19136cfaae6c04733b48d96119291b38eb1a3c3cb1982a986e

generic HMAC-SHA-512 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
d_md_hmac:"sha512":32:"4803d311394600d1e0d8f8c8cedeb8bde3fe7c4e19a0125d702a97153ad923ba5e9889cfa c1ba169ed370debe51237335a5eebfcc9785548c5e7e48e4777dce5c411ae6959118584e26ae9db42c2b9046f3e1f0c165b2a424bd2e4e1d3920d4a055f4f5489ab67f88bfc1c27626ec1349d707e40ce27ccfe8978191894789e46b50a2d7271d7d2eaa50de62fd:fc3c38c7a17e3ce06db033f11c172866f01a00045db55f2e2347f1c822642f2a2

generic HMAC-SHA-512 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
d_md_hmac:"sha512":48:"ae2f3b977f6a6c8e7e107c5a57c5ff5811666092"2:2245735554cd6c7095abd46846b41cfe49a06ce42ac88587b4702c771508d6b3626e0bfe851d8f97a07b36811ec433766e4b4166c62301b3493e7440d455406e6ac20f1a530e58fac8e8bae49ff2d4898d8a82783849cd269c2965fd7f8e4f2d60cfe5284f245f1455b72832a90e155a90eca e125ad75336bf128825c3f88b0:fa39bd8fccc3bf2ae18f9de5a5eb2ce10a7619e13678a568a9d27b1fe703b125af445debe9a89a07db6194d27b44d85a

generic HMAC-SHA-512 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
d_md_hmac:"sha512":48:"4285d3dd7744da527755bb44ca436a3154f7980309":208f0b6f2de2e5aa5df11927dcede6df485edc1193181c484d0f0aa34a954188030101d4e9df6d7b98f93516a916fa38a8207de16666e50fe3441c03b112eaaee6954e0d6f37aca3ec1e3f373b2d0153f3ee985f759e914030af7ee820529aadac24674f69fd18ad10e2afa0f2a7cd0eb3835a9fa77 c364a466ccf8e8bab4e2b70be1c:fe7603f205b2774fe0f14ecfa3e338e90608a806d11ca45df15ce36b1b264ed3ca35f0492a7521d8da3102ba20927a5
generic HMAC-SHA-512 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA4_C
md_hmac::"sha512":48:"8ab783d5acaf32efa0d9ca21abece955e96630d89":"17371e013dce839963d54418e97be4bd9f
a3cb2a368a52205a1b8aadd3f3b9c919a1fe7c7124f2d2b640f5b08d96bf3e257f70c8bc758883b899de0c2d6749d9672
feed22277e8c3e84b3e01b9f670c125f3cbe3eb6d19b8e0f873f915f173b0d5d81629ba187ccac1934b2f75952fb761
6ae6bd812946df694b2d276a":"9ac7ca8d1aefc166b046e4cf7f602be181a0e5055474bf5f5b342106731da0de48d8
7b02af6f8578f174289a1b099f8"

generic multi step HMAC-SHA-1 Test Vector FIPS-198a #1
depends_on:POLARSSL_SHA1_C
md_hmac_multi::"sha1":20:"000102030405060708090a0b0c0d0e0f101112131415161718191a1b1c1d1e1f20212223
2425262728292a2b2c2d2e2f303132333435363738393a3b3c3d3e3f":"53616d706c6520331":"4f4ca3d56d8ba7cc0
a1208e961e9c5da0403c0a"

generic multi step HMAC-SHA-1 Test Vector FIPS-198a #2
depends_on:POLARSSL_SHA1_C
md_hmac_multi::"sha1":20:"303132333435363738393a3b3c3d3e3f40414243":"53616d706c6520332":"0922d3405
faa3d194f82a45830737d5cc6c75d24"

generic multi step HMAC-SHA-1 Test Vector FIPS-198a #3
depends_on:POLARSSL_SHA1_C
md_hmac_multi::"sha1":20:"505152535455565758595a5b5c5d5e5f606162636465666768696a6b6c6d6e6f70717273
7475767778797a7b7c7d7e7f808182838485868788898a8b8c8d8e8f89909192933495969798999a9b9c9d9e9fa0a1a2a3
a4a5a6a7a8a9aaabacabadab0b1b2b3":"53616d706c6520333":"bcf41eab88bb2d802ff3d05caf7cb092ec8f84a3aa"

generic multi step HMAC-SHA-1 Test Vector FIPS-198a #4
depends_on:POLARSSL_SHA1_C
md_hmac_multi::"sha1":12:"707172737475767778797a7b7c7d7e7f808182838485868788898a8b8c8d8e8f8990919293
9495969798999a9b9c9d9e9fa0":"53616d706c6520334":"9ea886efe26d8bcce420c75"

generic multi step HMAC-SHA-1 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA1_C
md_hmac_multi::"sha1":10:"7b0f4f124b15c82e":"27dc5b1a60cfd63e2f73d4d6ca9c684f88b71fc682a46793b1790
afa4febf00ca7aaff26f58f081ed04d2f1cad1f474a2a2e79d5a0e42892ec47b327cbe46b295ed8d3ab6ecab3d4851687
a6f812b79d2f6f20f11f6706f5301790ca99625aad7391d84f78043d2a0a239b1477984c157b1c92760647a1a406b06
12a":"4ead12c2fe3d6ea43acb"

generic multi step HMAC-SHA-1 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA1_C
md_hmac_multi::"sha1":10:"4fe9fb02172a21b":"4ceb3a7c13659e22fe51134f03dce4e239d18b1b63c6b0b59d367157
fd05c9ab8384f92dafa8482d257e8ef2e11b183af4696026c54233d484cbe887904df5546419f8567eafdd23e6c2fcd
3ee2b7682e36000524b078dbbb2096f858007deae752562df1f3cb01278089e16f3be46e2df7cabac2d8e6ec02a2d0ca9
53425f":"564428a67be1924b5793"

generic multi step HMAC-SHA-1 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA1_C
md_hmac_multi::"sha1":10:"d1f01455f78c4fb4":"00d40f67b57914be456a3e320f1e1464b3f19a8d188c02e157af4b"
generic multi step HMAC-SHA-1 Test Vector NIST CAVS #4
depends_on: POLARSSL_SHA1_C
md_hmac_multi: "sha1": 10: "4e5ef77ff03a53b": "e5932646e34201d95e29f2a3446ec1b1c9ff31154e2a4d0e40ed66f1bc855d2976835264f0a112729e91915939a406f385a7e5d47a23ba91f28bd22f811ea258dbbf3332bc3543b825df54d1b06f4d6a341c22c4ed4b44f4c8d9edf0c59dbf4a052a6c83da748e719af68398c68708ff8eca8b9497f9ac1d725fdda": "981c0a7a8423b63a8fa6"
generic multi step HMAC-SHA-1 Test Vector NIST CAVS #5
depends_on: POLARSSL_SHA1_C
md_hmac_multi: "sha1": 10: "bcd9ff88aa60be2be": "51be4d0eb37bab714f92ec19e9d7039065b5363e8cd346a748245e731f437759cb8206412ce8db2ef14df4f6880f41ff69d949da4594fdecb65e23cac1329b59e69e29b875b38ec31df6fa546c595f35cc2192aa750679a8a516a5e00e839d73a8d8c598a610d237fbeb78955213589d80efcb73b95b85866f96d17b6f51a71c3b8": "84633f9f5040e8971478"
generic multi step HMAC-SHA-1 Test Vector NIST CAVS #6
depends_on: POLARSSL_SHA1_C
md_hmac_multi: "sha1": 10: "4a661bce6ed862d1": "5f6f6c744f1a1b1c29697d716f7541bb3eee3c7079183b10a83bf8a96e251d4bac3e1cb581ca972a9d3eb6f7c2875a6fb4c991132f67c9742d45e53bc7e8eaa9b35b37a907bee10866b24cd11088ac118934e85d9668e9667df66cf66f6e38ce3c47107bece912119b7ea00ac31f0222a6726368f9928a1352f1222341": "739df59353ace669455e"
generic multi step HMAC-SHA-1 Test Vector NIST CAVS #7
depends_on: POLARSSL_SHA1_C
md_hmac_multi: "sha1": 10: "1287ef1565a57b547": "390ffedc6c171e11568d85b8f913e019b9d4c982a69ca921ea730d41bd43f3cc0b88f48ba13a8f23de2b96ee10337e2b2a58ca72b0e17b0f3330db25d1e360fa6918009e4294bd1215b5ced159af8b3f3e3c7c4d90e8c5b9f887e8c98dbbb274a75373dcb695a59abd0219529d88518a96f92ab0cbcbda985c388f1fbcc9": "d78d0f8077c7d9e2ba6"
generic multi step HMAC-SHA-224 Test Vector NIST CAVS #1
depends_on: POLARSSL_SHA2_C
md_hmac_multi: "sha224": 14: "e055eb756697ee573fd321481a9f7fa": "3875847012ee42fe5a0027bdf38cca7021b83a2ed0503a69e9ec37637cb11114faba4096c5947d736e197a7af3c69d59a4e3bb073adbdbb80f47e9db8f2d40018dd847afbd99d952e93e4045897725f6b7ba15f08166b895cd5f0401268f5d702b76eaf9fae5f7b8768c8a3fc149f4a3b182b41d90e337d219b29ff": "40a453133361cc48da11baf616ee"
generic multi step HMAC-SHA-224 Test Vector NIST CAVS #2
depends_on: POLARSSL_SHA2_C
md_hmac_multi: "sha224": 14: "88e525b855b1b623385eb9632fa7c57d6": "ada76bb604be14326551701cf30e48a65eef88b44f904a7b14454435b7844a62109f7edc99de57387458ae935489b9620d0617eabeca9f3d413a33628054335ce656c26fa2986e0f111a63510962b31031ec786887177b0b370973c7405983b7956b30053eab492c0d7e7eb42e5c2e15fa6be8718c0a5acc4e5717230": "81c783af538015cef3e60095df53"
generic multi step HMAC-SHA-384 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
md_hmac_multi:sha384:48:"01ac59f42f8b9911d1b10fe6990d7a87":"3cafc18c476edd5615f343ac7b73a9da9efade755672d5ba4b8ae8a7505539ea2c121f755ec0457beb49e43480b3c71e7f4742ec3693a9da115d03990222b030f0d44e0313697176d53020580c07627438b916d6f61983063e2c1b268f2deee42fc790334456bc6bad256e31f9066de7cc7e43d13211866db45e905622":"1985fa2163a5943fc5d92f1fe8831215e7e9f10bf5332bc713a072db3a8f9e5c5157463a3b1f6b36231416e65973e64"

generic multi step HMAC-SHA-384 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
md_hmac_multi:sha384:48:"fd74b9d9e902a38d0df1baf0c3bb35bace":"1a068917584813d1689acb0d3070c02114d537cde8ce52b6df6bd16d5535f8ff71d1ad0c8509afa0cf62373ffbb7642b1f18e164010d350721d798d999e9724830399c2fecake6377e83d38845675457865c03d4a07d741a505e0f283433eb92fd6f0761f3792868999c1e5c5acabc7e6f08faed194b34f06eff4d5d4a5b42c481e0e":"a981eaf5de37d3b7b820bd4d4144a4ded0657e366edc808a0d2bc430cf7252f73a5b24b7ef1a136039207bdf59806897457d74e0c"

generic multi step HMAC-SHA-384 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA4_C
md_hmac_multi:sha384:48:"9fe794f0e2b6669fa5f6883149377c6c":"6010c9745e8f1d44c4dfc99e7e0fd799bc4271944c2d1d84daba589073d3efca4e5e98c5935f660cd87ef82baeb83a832bde339b2087daf942a11f678767c5de33924bed4143bc1a22b53cafc64daa7e2b3c388729823fb5336b1531e5eef8c6e1545536975d7c3a01ba3763ec35f165bc924bd191e9b915ade177fa1b4b3":"915ae61f87546982cb6ef9629e93441f8541bd4258a5e05372d191163cafaec0473b48a9d81162921b38eb1a3c1982a986e0c"

generic multi step HMAC-SHA-512 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C
md_hmac_multi:sha512:32:"c95a17c09940a6916ed2d621571b0e844ede55a9":"99cd28262e81f34878cdcebf4128e05e2098a7009278a66f4c78578480de5678f32b228f6e982d723b6273a2222ce161750b4556d766f15504a7aef893faedbe4bdaa83fa560d62df17eb914d05fdaa48940551bac81d700f5ca7147295e386e8120d66742ec65c6ee88d9a92217a0f6266d0d6dc66b20ef6799ae82999ce8502c2":"6bca1379d156559ddee2ed420e6a5d55cf3fe45445a1059b7a72c350e77b6e9333c"  
generic multi step HMAC-SHA-512 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
md_hmac_multi:sha512:32:"3b10b8fa718840d1dea8e9f3c317476bfc55875fd":"f0ff5b7073d7d0274e8354433b390306c5607632f5f589c12ed6b2d55673af2366d2e624d731ad9f2e654baa30blcf4d4a069788f6ec1b99b015d940f8832110bd74ae35a81562d14ec1436280ad0a55ff5489ba678fbb1c27663ec1349d70e740f0e0ce7fcf8e98711994789e486b50a2d7271d77e2aee50d6e2fd":"fc3c38e7a17e3ce06db033f1c1712866f01a00045db55f2e234f71c82264f2b2a2"  
generic multi step HMAC-SHA-512 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
md_hmac_multi:sha512:32:"4803d311394600dce1e0d8f8cedeb88de3f7c42":"a10c125dd702a97153ad923ba5e9889cfa1b069de370debe51f23375a6eффc97584cb5e7ec8477dc5c411a6a959118584ef26ade94b42e2b29b046f3cf01c65b2a42bd2e260db650a23bb4a72655b1100d7c6c9a4dab697e6379754b4396c852de4b9eb73f26a6c0d353b bdead706612800e137b858fd30f3311c6":"7cd2836c55102e6385f52297506df6c388ab75092da21395ce14a82b202ffa"
generic multi step HMAC-SHA-512 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
md_hmac_multi:sha512":48:"aeb2f3b977fa6c8e71e07e5a5c74ff58166de0e92":"22457355dc7609abd46846b41cfe49af06ce42ac8857b4702fc771508dbf3626e0bfe851d897a07b36811ec43376e4b4166c26301b3493e7440d4554b0ef6aca201a530e5f8ac8ea4e9f1fd4898d8a28783b49cd269c2965f628ef42d60cf1e5284f2495145b7b2382aad90e153a90ecae125ad75336fb128825c23fb880":fa39bd8f6cc3bfa218f9de5a5d3b2ce10a7619e31678a56d8a9d927b1fe703b125af445debe9a89a07db6194d27b44d85a"
generic multi step HMAC-SHA-512 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
md_hmac_multi:sha512":48:"4285d3d7744da52775bb44ca436a3154f7980309":"208f0b6f2de2e5a5df11927dd6d4f85edc1193181e484d0f0a434a95418803101d4de9fd8798f9351e6916fa38a8207de1666fe50fec441e03b11eeae6954ed0637ac9e3e3c13f73b20d153fe9e48575fe91430fa70e820529adac2467469fd18adf10e2a0fe27e0abc83c5a9af777c364a466ceffce8ebab4e2b70bc1":fe7603f205b2774f0f14efca3e338e90608a806d11ca459df5ce36b1b264eecd3a5f0492a7521d8da3102ba20927a5"
generic multi step HMAC-SHA-512 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA4_C
md_hmac_multi:sha512":48:"8ab783d5acff32e0a0d9c0a1babe9553ee6303d89":"17371e0131e038963d54418e97be4bd9fa3cb3a36fa520ff5a1b8aadfa3bdef9f7c717244fd2f640f5cb9d9bf3e25f70f8c758883b89dec6ed749d9672fcd22277ece8e4b3e3c01b96470c1525fb3cbeed6199beef80739f15f1733db05d81629ba187ceac1934b2f7552fb7616aebd81294f6f694bd2763a":9ac7ca8d1afece166b046e4cf7602b1e181a0e5055474bf5b342106731da0d7e48e4d8760ca5f0587f1574289a1b09f8f"
generic SHA-1 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA1_C
md_hex:"sha1":"":da39a3ee5e6b4b0d3255bfe9f5601890afdfd07090"
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":f944dcd635f9801f7ace90a047fbc479964dec024"
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":16a0ff84fccc156fd53ca3a744f20a232d172253"
generic SHA-1 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA1_C
md_hex:"sha1":"b5c1c6f1af":fee9deebfdcdedaf66da525e1be43597a73a1f93"
generic SHA-1 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA1_C
md_hex:
"sha1":ec2f3c36fa7e79d4b5e625616a238899d54927ce470018fbfd668fd9dd79ceb664e291584d0fd01da63be3c3e9df8ad8e36ac3ac78e1e3359b9dc87f09172e3232d0949b47a1e652aef6daa147a9f46fda33a9ebc65f9a11234746b9007a8c85f89f8a2ed78f1522e4ed3b9533d8fe8a0f222daceb9f99eeee359e59a92e72e3822d4f7d9f35f9f274d3cd27daedea8e3859487339876806fbb23665aba9309d945135fda14a4adadff14db18e8571ed93eb9f7f725c8194ce268b1edd3d99304797ab99902509cde35f109f52353dd9359d38ae485504e4b8b62353754fcd0102eb87f8a3066d6e86e6ba6ec8f80f73415b5f79898a5824e774141974223ed36a6080";
"0423dc76a8791107d14e13f5265b3434cc0f19"

generic SHA-1 Test Vector NIST CAVS #8
depends_on:POLARSSL_SHA1_C
md_hex:
"sha1":5fc2c3f6a7e79dc94be526e5166a23889987472d79e8583f5a1eb77a5e97a7a30f7d77473f0a80ce82c4827f2f1cf01f99895c08c44845b06a06ceedb0c6f83eb55a1d4eb4c482c56f77fa5e0e8af6d84e578443705437abc47e4a45dbbb7747affa24e51791a0edda120939b88681e300ab3b2e94113d5c3442541ca5d1a6906d897b626e4cb9716705800f746135465455040ac08e6880e714613bce9e65296298548c7d44607f733be067588a0117123e34ff578002b9a1e60f6e68f7b15d22c3d4ac7566b8c448b0c0e40373e5ba6e2a1abe7e1366aff27dbb304777d70c371e789638121f5ed4f784f2b35dd13aee83cdd473e2beaaca6692a7d73e00f27d9f76760d506904548269622fcb23f77a83feac096f9b309c0a1fa6ed204b735a71d7e996d388b80822e4df4d3838a9c742498cabeab4842fda283bcb09927c6e4a87db723a4e45e05125b28453fe0d5d417979472bb94d4acdbef8cb01d8311b5dada059131676efa99892ac2dd0940e471301b6488a9701670473c90c222d22d958289a3e4623a2400e188eccc36638845fb499bce17698c3feaea2527ddbd470552430d7ef30e23c283b1214478f17f08438398b4f73b3d3a496026824a5b655152b1ec32f2c497e0c7e078aa3d5f49c7ca68f2418769a9a9a309f6d352bc2cecaaa9e82dedca3929989ba6d7fed90aee3f3d1fc2949b6756cb3e2422c8e595dbabbfacae217757453ff3b22a13203f425f6073a9903de25818ee1da737af3c45f0075744e3a56e16194c9be12273a3bfc156694e243b96e44df1f662e50a8484a890809bfe1611c6787d374171030878399b4970f0c1509982868dbaacfc341c1718c2eb77323194a75dada37954a320fa68764027855a7e5b5274e1b1ebc7d21761d9859ad1659282015f48a2f49c9df90367040773c170079e87b4df86b1887b2625d9a9b906e4e185d5bbf34399931f08a26ec0dadc7f4f4cb8ec97b52cb942f6dbd2385dc1b3b9d567aaeb2452d567b0ebe267235615a1ed9bf789f923e1d0d77e430a0b460052c9e5f41240b717c160d7e9826e3376988b8c4f62845e2009980a4d6a9f96b7e5a0b1b2b0a5958ca967acc68eb31dd8ffcca9af6cd30a26bab2792f1bf6724f2197368399e8f8413ca9b084a0ca45390604af

generic SHA-224 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA2_C
md_hex:
"sha224":d14a028c2a3a2bec9471602bb288234e415a2b01f828ea62ac5b3e42f
generic SHA-224 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA2_C
md_hex:"sha224":"7f":"e33f9d75e6ae1369dbabf81b96b4591ae46bba30b591a6b66c62542b5"

generic SHA-224 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA2_C
md_hex:"sha224":"984c":"2fa9df9157d9e027cfbe4c6a9df32e1adc0cebe2328ec2a63c5ae934e"

generic SHA-224 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA2_C
md_hex:"sha224":"50efd0":"b5a9820413c2b8211fbbf5df1337043b32fa4eafaf61a0c8e9cceede"

generic SHA-224 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA2_C
md_hex:"sha224":"e5e09924":"fd19e74690d291467ce59f077df311638f1c3a46e510d0e49a67062d"

generic SHA-224 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA2_C
md_hex:"sha224":"21ebecb914":"78fa4a71c21e694499e1c7866611b1ace7a0d95012e356323c7c713"

generic SHA-224 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA2_C
md_hex:"sha224":"1e489947c1a7a589726b154363b4f3d9556262f982c64225c5d2f0f0fad7fe427a3a491c86d1011fe6b7514506268f65b2d269b0f69a9d997847e1fca2343775eb7be6837efcf11cb8b2e8dcd640b0b59b49c6e9f3e3cf4a66e2b97d68bb1f43ad69af49f0aba365e30535202deeb6599a47225e05e0b353135cd7b0e2f94080d619198c7e713105fd93b39d332422b799df98b6f9e137bd51b8b989a9ce01c8dbd0c5333c3682ecc52118de0c1062ec21262e657d6ee3a9d82390754b0f1d5c1f93e983d2a8899199e1ee73f46377817fed2705192e3218b2664b7ef2a0e5d9a18e6c95078189477976f0489510c3bd34b325b3980cafed987741f199947c0f256252dcb118294a163501f6239c326661a958fd12da4dc15a899f8888ccc7235890566ace5aa4a4c5db664809660423c38c486e21070ef0b25e11f26ceb261663e147a647dadba0a9e9be9d6548bf63615a464ec4a9f56e62da2c7974cd14b90d3e4f99f1813738e5b3e15da5b08990f5ed7e0f0d9c7469e46bee03755454fe4a39576a5bf5ade4e28e7f0997bd77797f176768c6b8407e490790e611f4f302b638a4ba7e5722db2b11ce8fd02e4a164016f4d3a4f66de50b08b1f159f37daedae0808ed097df096020680c25f05df85431a529f4f3f39089dceda10504ee51dead704cd5a605c55b0f55c9b0e86b8a81b54e0de0a53e709a595cbo13cb2922680b7c5e59371ea7ef597cd4b229778a20694c99ae55d9de3ef62b75d6e656e3336698d960a3787bf8c5fb9267afeeff52ae1288b5c9c6e9d94b910b67b80e30487971a2d91c381f576e8a15b63b5ee6ad2f435b49f14c9e693669061944370878762a67757fb3532b28955949a6d4c81871a1102fccc8b5ea59f8fca6aa45749df3703768c8681e0f8108c9f707e77ecb49728f8603430842b9695682e0824427f6ed80d1fd1f151337b0d85419047a7aa284797171a8a460ed58667824b95c8376bf949be5a6ade48a64356a44d93ac363bbf86b79be8f9d10a00f0ca0d7a7b978ba47e66c6b101f75bf5994b29d0c8e041504811c40658f82cf2ead58d26295f5db8ce3c0434f4d49577b373b7e1a63e65e65f4050c3b070cefe5eb5f41179481338aa67e86bb3fa2e7c21e45c333ae3d943ab73ab5f4a90439519534a557f56e4ab0d0e0e4f3022f1ed3bad7d829c9b3a7b903d26d9e15fae4c310d04fa7a0e242405160a1002debe202405d818hb92743f79040ae4edcd9753c4b9732a44755f504b20c328fe9add7f432a2df075829ad07b53b690537dc51737d3cd731934df333cd1a53f65aa31baa454c50a01a6ba2e6323247e768e5a44d92e9fec5a8a261ae38b9f8e5e77c0f2eccc09ddced5b3de92036c310249d1e197c41813b054a942329d420e366530f5517b470e964f3"
generic SHA-256 Test Vector NIST CAVS #2
depends_on:PolarSSL_SHA2_C
md_hex:{"sha256":"7e4bf6484498d21b487b9d61de8914b2eadaf2698712936d47c3ada2558f67882"

generic SHA-256 Test Vector NIST CAVS #3
depends_on:PolarSSL_SHA2_C
md_hex:{"sha256":"7e4bf6484498d21b487b9d61de8914b2eadaf2698712936d47c3ada2558f67882"

generic SHA-256 Test Vector NIST CAVS #4
depends_on:PolarSSL_SHA2_C
md_hex:{"sha256":"7e4bf6484498d21b487b9d61de8914b2eadaf2698712936d47c3ada2558f67882"

generic SHA-256 Test Vector NIST CAVS #5
depends_on:PolarSSL_SHA2_C
md_hex:{"sha256":"7e4bf6484498d21b487b9d61de8914b2eadaf2698712936d47c3ada2558f67882"

generic SHA-256 Test Vector NIST CAVS #6
depends_on:PolarSSL_SHA2_C
md_hex:{"sha256":"7e4bf6484498d21b487b9d61de8914b2eadaf2698712936d47c3ada2558f67882"

generic SHA-256 Test Vector NIST CAVS #7
depends_on:PolarSSL_SHA2_C
md_hex:{"sha256":"7e4bf6484498d21b487b9d61de8914b2eadaf2698712936d47c3ada2558f67882"}
depends_on:POLARSSL_SHA4_C
md_hex: "sha384": "38b060a751a96384cd9327eb1b1e36a21fdb71114be07434c0cc7bf63f6e1da274edebe76f65fbd51ad2f14898b95b"

generic SHA-384 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
md_hex: "sha384": "7c27": "3d80be467df86d63abb9ea1df3f9cb39dc19890ce7f2e53a6200bedc5006842b35e820dc4e0ca90ca9b97ab23ef07080fc"

generic SHA-384 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
md_hex: "sha384": "7c27": "8bdafba0777ee446c3431c2d7b1fb6310899f71d2ca17abc1d23001aba64edcf1c187474a6f4077d372c14ad407f99a"

generic SHA-384 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
md_hex: "sha384": "31f5ca": "78d54b943421d7f7ba90a7f9b6373c2073aaa480454bd841d39ff72f4511fc21fb67797b652c0c823229342873d3beef955"

generic SHA-384 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
md_hex: "sha384": "7bdee3f3": "804e14dbf1db1060f14c8c799e25b1e0c4d2cf1504ebbd12999f80ae283e6de86ed03c7e879c73ec318363ee89e2649"

generic SHA-384 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA4_C
md_hex: "sha384": "31f5ca": "78d54b943421d7f7ba90a7f9b6373c2073aaa480454bd841d39ff72f4511fc21fb67797b652c0c823229342873d3beef955"

generic SHA-384 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA4_C
md_hex: "sha384": "665da6eda214": "4c022f11201090884312f8b8f1072625fd5c105399d562ea1d56130619a7eac8dfe3748f05e3ee5b690be9da98380"

generic SHA-384 Test Vector NIST CAVS #8
depends_on:POLARSSL_SHA4_C
md_hex: "sha384": "7f46ce50d6593c4ed5c828edeb602037e0485befbee3f7930fe532d18ff2a3f5fd6076672c8145a1bf40dd94f7ab47c9e71c2342132ad1069c2dac0b0a15257ae672b8245960aa55bd50315e0097daa3a1318745788d70d14706910809cafe369237fe4934fa46f99e782d6666d8bd6bd283b1160513ce9c249f0849b7981f99d49f00a519a90f333b067825009e7e22103ef22935803d1ff1ac8ef877ff53426dd54f7d1128d887d19ad78d88f94e0e87120113295b8d69ae7623b80978c2d36ad26dcd478f8dc4df5ca0a0d6e166565dc3d3c205a9071b2f191e16eac0bd8b995148f7c719633752303aa8e518bcb389f0a5482aaac4c507f87729a63fdd01efb3902600000c66699f51971cf7381d650e144a5928e8c2d1ad7476b50ada2f202f3234a1aff9a1019b28685721c3d2d52311c72e13fdca8032014d3acaf8c43880e104f63f2d7ce69a97857819ba7ba00ac8ae1969764de8f68cf8e0967d7e0c151147d4944f99f42ae50f30e1c79a42d2b6e188313d3cb6f904027b354b295ccd0f7dca5a87d73
638bd98ebf00383ca0fa69eb8dc35a12510e507ad8789047d0b63841a1bb928737e88b0a0c33254f47aa8bfbe3341a09c2b76dbce0af6e730d3f03d34f7bb665666554869e51bb3f6fe66b2b38359e4a5036bf7f63f0292a087ee7457f483b6025a855903cb484574aa3b12cf946f32127d5373c3ee3a114b5db96d10a148c50ae05f5287210757710d6846e94b2021f79e87d9da56b6cd415f47a77a7f63959351ede00309cd276a8e7176cb04daff0e9009534438732cb42d08008853d38d19beba46e6100e30f7edf11bc7c2906b024a4ff898a1b58c448d68b43c6a6b63f34f85b3ace6aa4745876e51b583844cb23829f4b304b3d817888e2f37b4fc0a62495b505ec5e8686082b24d29ef2ebd03c329e031d5f49f50401bd3d9361ebf9ad424266c39a8094c6e62f85f639f3fd6f5ca8e0ec74a8f4e6e1d070b9913a43c722caaa0225f8bcd68614d60738ed62f8484ec6077d155c08e26e46be262a73e3555169bb7d0d5610c1f37c4c306eed04abfa04a09c36ed7e15e8acda1174777c484cf5e56b813113927e7838781024f995e98f8c87f109991c010428bde2b996e2ead7d2b53e762a2fd0e2c2d127dd9f1d97b3c5984035265f6395a7f5472f2d72c99d68c27914f14f82aa8df5fe42348b0ca967a3f98626a0915525f00f2f010350d23c996256ce01d0e2dB2c2c612519869877e47929e6e95f1f5040f485e22ed14119880232fe3fb57b3848f15b1766a5552879df0f6e":"cha9e3eb12a6f83db11e8a6ff40d1049854ee094416bc5277efa931d8585428a8ed6242ce81f6769b36e212a5c23483e"

generic SHA-512 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C
md_hex:"sha12":"cf83e1357eefb8df1542850d66d8007d620e4050b5715dc83fa921d36ce9ce47d0d13c5d85f2b0ff8318d2877ecec263b931bd47417a81a538327af927da3e"

generic SHA-512 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
md_hex":"sha12":"8f":"e4cd2d19931b5aad9c920f45f5f6f6ce34e3d38c6d319a6e11d0588ab8bb838576d6ce6d8eea7c830de66e2b96458fba7aaabfbbece981d4ed04098c3dd9522a"

generic SHA-512 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
md_hex":"sha12":"e724":"7dbb520221a70287b23d3b6f262fd1bc7b3136d858e86266732a7ff8a75ceaca2c1b8f673bc065d360c563a7b9539349f5f59be8c0c593f9857e3c50bb26a231"

generic SHA-512 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
md_hex:"sha12":"de4c90":"33c9e98281045a5c4e9df0363d8196f1d7dfcd5ee46a897776fd8a4344c12f123a66788afbd41ceff1941aa5637654b4064e88c14e00465ab79a2f6c6e97e1014"

generic SHA-512 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
md_hex:"sha12":"a801e94b":"dadb1b5a27f9f8ce8d86adba25a1879beb1787ff28f4e8e162cad7fee0f942efcabff738bc67f797f7c7c9a3b75048ced4c82ca0757a324695bfb19a557e56e2f"

generic SHA-512 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA4_C
md_hex:"sha12":"94390d3502":"b6175c4c4c6cc69e0ce50f3132010886eab34d43673f942ae424839f9cb7da817de4e11b5d58e25a3d9b721a22cddf0e4c40411ce45df1911fa5506129b69297"
generic SHA-512 Test Vector NIST CAVS #8
depends_on:POLARSSL_SHA4_C
md_hex:"sha512":"990d1ae71a62d7bdaf9bdaa1762a68d2996ee72a4c9d46fe287a89f8bab002ea941fd8d4d991030b4d27a6373cc501a834bb959eb1b78b9a3e784c797968e67cbf552006b206687f6d9191327524ffe251aeb56af483d10b4e0c6e5e5999ee8ce0fe4f4eca8293844a8547ca6a909d093f2562873a19a4da5e776794c68c742fb834793d2dfeb7feaca6e63af4b70fd11cb6e418347e24e0dd6b067b292a794990c288d5007c73f3f9fb383af6a756b803a10ad6e5e0aa8cd6143999bb3a452376b1575afa66daaeafcc286cb064bb91edef97c638b3c61113d107fa9a3a905098a105043c2f05397f702514439a08a9e5dcd19610070245a48c1f7d2ed65973f6e8a00d5e5992a08e0c2d8a29d8d6aa5f2d2e97e93463033d6db501a35dbbaf97c20b830cd2d18ec25323fa59cc497e64e0c57d8d600e5069b28d6edf1aadc5f9144b221ce3d3aef134b3124b7dd000040e0ff5f5f41e83cd7f5b37c9ae21953fe302b0f6e8686f8a91c6ab99265c642b2d9cd4924be04321bb5d719132376ce62f8f8e02422baaf5a2e2cb7865df93f54dd07286caadab0a33ccbee220678a544e2c363f6714b6447ee58aaf8c65b43e8f187932176adbcce2e04bb2e812c273c6cbf4a098f0be306a3422f1a02643f5ee2e083153f2a18ced2f16e4c58e8b31b8ab967a1567ee016904189910861ca1f2a5c7ada9194b286983ff2f4be0384e2af72a522c0aaf3ebe7c1f9db71eeeeeef86c48394a1c86d5b6c35c23e30a2e2800bc99ee62fd65b3a2f69e0b53996ec13d8e3c8e3e3919ef9a5acefadb623244266eb883d1da4fb2426sf506c16c6de7407ef89b6f6ecf9ff9a1b1f71ae19f89b2d345cda7499bb945c42a5d195a1e166ba84851889e730ada3b29f1e96152aee09215459719184db77ec707ba8a5d7b101eb4ac7b6293b23781710ff615180b59a878182da1e233473d750b0b0710b2933187026c05f45a206e7024d6ebb8566ca7c2f3d106fa1db7d48d8d7f86036469ce72826937d85b8e1a5b0cf818a4c5e8ed44ceae1e53053057e8284ace276sf5d7862272aff246e17addde50c670028d57f2890c0be2e4ff8b2eb28fa68ad7b4ec6c2a239c460441bfb5ea094f32608363b4e7729a59e598261a0a939db54f8c3ebe8ed7eae011251cb60ad1364ce6677d7e8544a4ac9667a7241c360bc2ac8280e59e9c91b023a6180a35ec51580b9d16026c865b252098cc1d99ba7375a31c7702ce0d93453ed2f6861fa55b46d94667ed3e524c892d66d586e81897d6de97ed305579f3f1d":"e4eb3eb88b66f6e4d6b6c1db91b59c8693c3151c46749af58a22844429752f3359b6d6cc62ec8fa3f00a86ec6bfa728e1ad60b821ed22bed309b9a91a4138bc9"
generic multi step SHA-1 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA1_C
md_hex_multi:"sha1":"":"da39a3ee6e46b2d0325bbfcf59610890af807009"
generic multi step SHA-1 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA1_C
md_hex_multi:"sha1":"a8":"99f2aa95e369f5c2aeb0eaf239980f306383f15"
generic multi step SHA-1 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA1_C
md_hex_multi:"sha1":"3000":"f944dc63f5980117ae9a0a407fbc479964dec024"
generic multi step SHA-1 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA1_C
md_hex_multi::"sha1":"ce2956124ede706b6eb30a1c371d74450a105c3f9735f7fa9e38cf67f304a5736a106e92e171 39a6913b181a143f361f39546ab4296a9f9722826e06669edacad73b2548035185813e226349a9440009d5a281ff9f264 eceef0a931222162d01caca28db5f3c2aa24945a1e13cb413ae29810f7d94cad5d2af29e43c383b198f4e4ae1da2359780 221405bd6712a5350d4a4b17373f7ed21c0eb7728d08235a9011":"970111c4e778c88cc20459c02b694a8af58217"
depends_on:POLARSSL_SHA2_C
md_hex_multi: "sha224": ":d14a028c2a3a2be9476102bb288234c415a2b01f828ea62ac5b3e42f"

generic multi step SHA-224 Test Vector NIST CAVS #2
depends_on: POLARSSL_SHA2_C
md_hex_multi: "sha224": "ff": "e33f9d75e1ae316d9dbb81f96b591ae466bba30b591a6b6c62542b5h"

generic multi step SHA-224 Test Vector NIST CAVS #3
depends_on: POLARSSL_SHA2_C
md_hex_multi: "sha224": "984e": "2fa9df9157d9e027cfbc46a9df32e1ad0cbe2328ec2a635ae934e"

generic multi step SHA-224 Test Vector NIST CAVS #4
depends_on: POLARSSL_SHA2_C
md_hex_multi: "sha224": "50ef0d": "b5a9820413c2bf8211fbbf5df13370433b32fa4eaf4f1a0c8e9c5e"d

generic multi step SHA-224 Test Vector NIST CAVS #5
depends_on: POLARSSL_SHA2_C
md_hex_multi: "sha224": "e5e09924": "fd19e746909d291467ce59f077df311638f1c3a46e510d0e49a67062d"

generic multi step SHA-224 Test Vector NIST CAVS #6
depends_on: POLARSSL_SHA2_C
md_hex_multi: "sha224": "21ebecb914": "78f4a721c26c94999ce1c87666611b14aee70d905012c3563232c7e713"

generic multi step SHA-224 Test Vector NIST CAVS #7
depends_on: POLARSSL_SHA2_C
md_hex_multi: "sha224": "fc488947c1a7a589726b154363bf43d9556262f98fc64225c5dcd20f0fad71fe427a3491c8ed610 
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<th>Test Vector</th>
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<th>Hexadecimal</th>
<th>Depends On</th>
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<tr>
<td>NIST CAVS #1</td>
<td>7155:636e646e657374696669636f6d6d656e747970706f7074797372696e672e636f6e66656e64696461726473</td>
<td>e3b0c44298fc1c149afbf4c8996fb92427ae41e4649b934ca495991b7852b855</td>
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<td>POLARSSL_SHA2_C</td>
</tr>
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<td>POLARSSL_SHA2_C</td>
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<tr>
<td>NIST CAVS #4</td>
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<td>POLARSSL_SHA2_C</td>
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</tr>
<tr>
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<td>POLARSSL_SHA2_C</td>
</tr>
</tbody>
</table>
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generic multi step SHA-384 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C
md_hex_multi:"sha384":"";";"38b0600a751ac96348cd9327eb1b1e36a2f1db71114be074340cc7b6f3f6e1da274edebfe
76ff65bfdb51ad2f14898b95b"

generic multi step SHA-384 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
md_hex_multi:"sha384":"ab";"fb94d5be118865f6f6c9b78b825da82e8f188faec2f66cb84b25337d74b4938469854b0ca
89e66fa2e1828347366629fd3"

generic multi step SHA-384 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
md_hex_multi:"sha384":"7c27";"3d80be467df86d63abb9e1a1d3f9c39cd19890ce7f2c53a6200bedec5006842b35e820
dc4e0ca90ca9b97ab23eef07080fe"

generic multi step SHA-384 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
md_hex_multi:"sha384":"315ca";"78d54b94321fd77ba90a7fb9637c2073aa480454bda841d39ff72f4511fc21fb6779
7b652c0e823229342873d3bef955"

generic multi step SHA-384 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
md_hex_multi:"sha384":"7bde33f8";"8bdafa0777ee446c343c1c2d7b1fbb63108971d2ca417abe1d230e1aba64ec2f1
c187474a6f4077d372c14ad407f99a"

generic multi step SHA-384 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA4_C
md_hex_multi:"sha384":"8f05604915";"504e414bf1db1060f14e8c799e25b1e0c4df1504ebd129998f0ae283e6de86e0d3c7e87973ec3b1836c3ee89c2649"

generic multi step SHA-384 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA4_C
md_hex_multi:"sha384":"665da6eda214";"4c022f112010908848312f8bbf107262f5d5c105399d562ea1d56130619a7ec8dfc3748f0d5e37e4b690be9d9a9980"
generic multi step SHA-512 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C
md_hex_multi: "sha512": "c8fe31357eefbb8df1d342850d66d8007d620e4050b5715dc83f4a921d36ce9ce47dd0d13c5d85f2b0ff8318d2877ecc2f63b931bd47417a81a538327af927da3e"

generic multi step SHA-512 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
md_hex_multi: "sha512": "8f": "e4cd2d19931b5aad9c920f45f5f6fcec34e3d38c6d319a6e11d0588ab8b8838576d6cede6d8eda7c830de66e2bd964568ai7aafbcbec981d4ed040498c3dd9f2a2"

generic multi step SHA-512 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
md_hex_multi: "sha512": "e724": "7dbb520221a70287b23dbcf62bfc1b73136d85e862667327a7f7f87853ca2ac1b86f73b5c065360c563a7b95393495f59f9be8c0593f9587e3cd50bb26a31f"

generic multi step SHA-512 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
md_hex_multi: "sha512": "de4c90": "33ce98281045a5ce49df0d363d8196f1d7dcd5ee46ac8977767fda4344e12f123a66788af5bd41ceff1941aa5637654b4064c88c14e00465ab79a2fc6c97e1014"

generic multi step SHA-512 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
md_hex_multi: "sha512": "a801e94b": "dadb1b5a27f9fcee8d8a6d2a51879beb1787ff28f4e8ce162cad7fee0f942efcabbf738bcf79f7c7cc93a75048cd4c82ca0757a3246959bf19a557e56e2f"

generic multi step SHA-512 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA4_C
md_hex_multi: "sha512": "94390d3502": "b6175c4e4c3ef69e0ce5f031201886ea6b34d3673f942ae428493e8bbd7a17de4b11b5d8e25a39d9bd721a22df8e1c40411cc45df1911fa5506129b692976"
generic multi step SHA-512 Test Vector NIST CAVS #8
depends_on:POLARSSL_SHA4_C
md_hex_multi: "sha512": "9909da1e2782fda9fda9da1772a268026993e72a4cd946f287a898f9ac002ea941df2d4dd99 1030b4d27a37ce501a834bb95e1ab17889a3e784c7968e67cbf520062b68f67f6d9191327524f2c51abe56af483 d10b4ae0c6e5598e8e6f84e4a8c5e999d09df32526873a19ad4ac75e776974c8472f483784932dfcb7f0a3c6a63f4b70fd11cb6e4183472ee40eb067b292a794990c288d5007e73f349ff833af6a756b8301ad6e5e0aa8cd614 3999ba3a452376b1575afabdaaaf286cb064bb91dfe979c326b26c1113d07f79a39a050908a105043c205397f702514 439af08a95e5dce196100721d45c8fc172d26d5937678a00b0d5cb9a09860e26d8a29d8d6aaf52e979e39460336bd501a35 dbbaaf97c20b830cc2d1d18c2532f3a59cc4979ee64c0e57d8d060e5069b28d86edf11adcf59144b221ce3daa1ef3b3124fbc 7dd000240ef0f5f5f41e83cd7f5bb37c9ae21953e302b0f6e8b68fa91c6ab99265c64b2fd4942be04321b5d6d719 32376c6f2f88e02422bafa5e2c8575d5df935d5d0728c6abada032bec22ec63757641bf44f4e588afe56b43e ef817932176adbf2e04b2c81e2723d6c6bfaa4989f0be036a1a32211a2026435ee20b38135f2a18e2e2d16ebe45f5ee3b1b 8ab967a1657e0e16904188910861ca1a205c7ada194b286893ffe2f4fe0384c2ae72a4522aeaf3edebc71f9db71eeefeef 86e483941a1c86d5b36c35233a0a2c800be996e2d6f5b32f6e09b5999ec1d3ce483c9e319e9df9a85acefacdbf5342 2266efbb83f1d1af4b2426df50c61c6de74077ef8996b6ecf9f29a1f871af1e9f89b2d345c7a499b9d45c42a5d195a1ea6b a84851889e730da3b2b91e961520a0e92154a971984d17e7c707ba8a5d7b101eb4ac7b6299b327817910fff61580 b59a9bb7818121e2d2e34737d0500b170b29e31870826cfe45af20a62a07d0246b856ca7cf2bdc3e10b6fad7d48d78 60356699c27e28029d78b5e1a5b0fc81a54e8ed4ceae1e553050e7828ac2765df7862727aff42e617addde506c76002d 5724b2abc02e48bf2eb28f8a6ad7b4e6ca2a3c964041bf8e5e4092b308536b4e74779a59e5986af1a6093db3d548c36 eebe87adea101251cb060ad1364c6677de8d5a4e4ac96a7241cc3606c2acb80e59e9c1b302ad6a180a35e0c5b1509b 1d026c6865b252098c2d199b7a3753ca31c7702c0d935d33ed2df6861a5f5b46d946bf7ed3e52eccd8dd06d986e01987d 6de97ed30589d19d": "8e4ebc6f886c0fe4db8c616db9159c8693c3151c46749af58da228442927423359b6dacc6ce2cc8fa3f00a86cecbfa278e1ad6b0821ed22fced309ba91a1438c9e"}
}

generic SHA1 Hash file #1
depends_on:POLARSSL_SHA1_C:POLARSSL_FS_IO
depends_on:POLARSSL_SHA1_C:POLARSSL_FS_IO
md_hex_multi: "sha1": "data_files/hash_file_1": "d21c965b1e768bd7a6aa6869ff5f821901d255f9f"

generic SHA1 Hash file #2
depends_on:POLARSSL_SHA1_C:POLARSSL_FS_IO
md_hex_multi: "sha1": "data_files/hash_file_2": "353f34271f2aeaf49d23a8913d4a6bd82b2ecdc6c"

generic SHA1 Hash file #3
depends_on:POLARSSL_SHA1_C:POLARSSL_FS_IO
md_hex_multi: "sha1": "data_files/hash_file_3": "93640ed9207632809270c756db2fba9c486b35"

generic SHA1 Hash file #4
depends_on:POLARSSL_SHA1_C:POLARSSL_FS_IO
md_hex_multi: "sha1": "data_files/hash_file_4": "da39a3ee5e6b4b0d3255bfef95601890af80709"
generic SHA-224 Hash file 2
depends_on:POLARSSL_SHA2_C:POLARSSL_FS_IO
md_file:"sha224":"data_files/hash_file_2":"733b2ab97b6f63f2e29b9a2089756d81e14e93fe4cc9615c0d5e8a03"

generic SHA-224 Hash file 3
depends_on:POLARSSL_SHA2_C:POLARSSL_FS_IO
md_file:"sha224":"data_files/hash_file_3":"e1df95867580e2cc2100e9565bf9c2e42c24fe5250c19efe33d1c4fe"

generic SHA-224 Hash file 4
depends_on:POLARSSL_SHA2_C:POLARSSL_FS_IO
md_file:"sha224":"data_files/hash_file_4":"d14a028e2a3a2be9476102bb288234c415a2b01f828ea62ac5b3e42f"

generic SHA-256 Hash file 1
depends_on:POLARSSL_SHA2_C:POLARSSL_FS_IO
md_file:"sha256":"data_files/hash_file_1":"975d0c620d3936886f8a3665e585a3e84aa0501f4225bf53029710242823e391"

generic SHA-256 Hash file 2
depends_on:POLARSSL_SHA2_C:POLARSSL_FS_IO
md_file:"sha256":"data_files/hash_file_2":"11fcfb1baa36ca45745f10cc5467ae86f066f80ba2e46806d876bf783022ad2"

generic SHA-256 Hash file 3
depends_on:POLARSSL_SHA2_C:POLARSSL_FS_IO
md_file:"sha256":"data_files/hash_file_3":"9ae4b369f9f4f03b86505b46a5469542e00aaff7cf7417a71aff6d6da8a3b70e"

generic SHA-256 Hash file 4
depends_on:POLARSSL_SHA2_C:POLARSSL_FS_IO
md_file:"sha256":"data_files/hash_file_4":"e3b0c44298fc1c149afbf4c8996fb92427ae41e4649b934ca495991b7852b855"

generic SHA-384 Hash file 1
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file:"sha384":"data_files/hash_file_1":"e0a3e6259d6378001b54ef82f5dd087009c5fad86d8db226a9fe1d14ecbe33a6fd9c963a4d16f5f286424de15d5a8e0e"

generic SHA-384 Hash file 2
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file:"sha384":"data_files/hash_file_2":"eff727afc8495fe92ef370ff97a317ff3c3350324b0646bf0f0e264708b3e97d3d332d3c5390e1e47130f5ce92f1ef4b9cf"

generic SHA-384 Hash file 3
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file:"sha384":"data_files/hash_file_3":"6fc10ebda96a1ccf61777cac72f6034f92533d42052a4bf9f9d929c672973c71e5aeb1213268043c21527ac0f7f349e4"
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file: "sha384": "data_files/hash_file_4": "38b060a751ac96384cd927e1b1e36a21fbd71114be07434c0cc7bf63f6e1da274edebeb76f5fbd51ad2f14898b95b"

generic SHA-512 Hash file #1
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file: "sha512": "data_files/hash_file_1": "d8207a2e1ff2b424f2e4163fe1b723c9bd42e464061eb411e8df730bced2a47ab3956a6f3f044a52eb2d26f9e4ca6b524092b544ab78f14d6f9e4cc8ddf335a"

generic SHA-512 Hash file #2
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file: "sha512": "data_files/hash_file_2": "ecbeb7f0ed4b5b9f16ad3088b6c06ea93451912a7187db15f64d93517b09630b039293aed418d4a00695777b758bf13f8548c2fbd292ce5ed9963b36e8734e7"

generic SHA-512 Hash file #3
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file: "sha512": "data_files/hash_file_3": "c7cc9b2da71ffde9966c3ce4f7d20945f3ccf33b1fae4da152b021f1afcc7293382944aa6c909ac67a2f52f22026758e2bf6ed868ae2a435926777e50f8eea41"

generic SHA-512 Hash file #4
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file: "sha512": "data_files/hash_file_4": "cf83e1357eefb88bd1f5142850d66d8007d620e4050b5175dc83f4a921d36e9ce47dd13e5d5f2b0ff8318d2877ecf263b931dd471a81a538327af927da3e"
--- BEGIN CERTIFICATE-----
MIIFCTCACA3GgAwIBAgIDC0EHMA0GCSqGSIb3DQEBBQUAMHkxTAOBgNVBAoTBGl0dGVyU2xpY2s
depends_on:POLARSSL_SHA4_C:POLARSSL_FS_IO
md_file: "sha512": "data_files/hash_file_5": "cf83e1357eefb88bd1f5142850d66d8007d620e4050b5175dc83f4a921d36e9ce47dd13e5d5f2b0ff8318d2877ecf263b931dd471a81a538327af927da3e"
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 7161

-----END CERTIFICATE-----

Certificate:

Data:

Version: 3 (0x2)
Serial Number: 3 (0x3)
Signature Algorithm: sha1WithRSAEncryption
Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
Validity
   Not Before: Feb 12 14:44:06 2011 GMT
   Not After : Feb 12 14:44:06 2021 GMT
Subject: C=NL, O=PolarSSL, CN=PolarSSL Client 1
Subject Public Key Info:
   Public Key Algorithm: rsaEncryption
   RSA Public Key: (2048 bit)
      Modulus (2048 bit):
         0e:6e:cd:aa:2d:be:13:c4:df:d7:3f:8f:97:88:2c:
         70:0e:cc:dd:14:d7:db:0:8:12:a6:ce:3f:e6:43:
         d9:59
Exponent: 65537 (0x10001)
X509v3 extensions:
   X509v3 Basic Constraints:
      CA:FALSE
   X509v3 Subject Key Identifier:
   X509v3 Authority Key Identifier:
Version: 3 (0x2)
Serial Number: 7 (0x7)
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 Cert SHA1
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:d6:e1:3b:
      07:67:0b:03:2f:a2:09:ed:f0:33:8f:0b:ce:10:ef:
      5e:1c:81:60:46:3e:be:b5:6b:3:3f:fa:4e:47:1c:be:
      97:17:0b:13:0a:a7:6b:4a:8b:ce:1:47:30:fb:3a:f8:
      ca:01:e3:35:7f:fa:20:f5:cd: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
CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,0) #0
ctr_drbg_validate_pr:"d254cf1f02169d229e9cfad85fa486c":"c18081a65d44021619b3f180b1c9020026a546f0ce7081
498686beaa662526d51bc8083bfaed5375fbb9f4fd6d197c7239e95459d82e1e572996f33169d266b5747fa337c9981cfbfb
913145589e915a5ee49392cfc52312d5562c4a6effd1c10d6d8":""":"""":"34011656b42908f3563ecb5f2590723"}

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,0) #1
ctr_drbg_validate_pr:"7be87545266dadd1d73546c0927af8c8d":"af738c570bd6ff414c79f5b7dd3024d58ca3f14c09
6486c4a73e47f4a2410ec4c95143ebc09df842b94427f385bbf65c5350b0bf2c872427a232c82e419e4e4500c250f6
bc0dc25ec0e929c4ad5ffba78950c618f8cee1af4831b48b":":":":d5b1da77f36ce58510b75dfde71dbd5d"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,0) #2
ctr_drbg_validate_pr:"3771146b162f4d9c5f48a05b7aa73938":"d20a0e5db714f01b48e00ba51909f435af05de1321
7e5d55f6c62705aa550402d9a458594d825b71e16b36130020e5f948f8e813462061c1a222df0fe1e4b3d21ae83331
d3260330d668d24ef3c8944b8720e8591b7d5e04bd35a3af1a":":":":3cbd7d5ac1727e953911419addad836e"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,0) #3
ctr_drbg_validate_pr:"f2bad8f7dab3f5886faafecf6e1f52e87":"4df54a483b4510ed76049fae1bf49b62b16459d1f6b64f
4dbeca85 deducted6018361223e8939442719c51eb5695e1304a112be8c050d5084665109252883a1a8eefb928aa50540
d7e7864c2b8a424d4380cde6e02eeb48d0b5840b7cdd6e04":":":":0062d822bc549bea9292c378476347098b9"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,0) #4
ctr_drbg_validate_pr:"3771146b162f4d9c5f48a05b7aa73938":"d20a0e5db714f01b48e00ba51909f435af05de1321
7e5d55f6c62705aa550402d9a458594d825b71e16b36130020e5f948f8e813462061c1a222df0fe1e4b3d21ae83331
d3260330d668d24ef3c8944b8720e8591b7d5e04bd35a3af1a":":":":3cbd7d5ac1727e953911419addad836e"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,0) #5
ctr_drbg_validate_pr:"b72b9451a5e86e6e226978623d5363491":":2713d74affed98e3433559e17d240288bb1a179090
4cd7754ad97007e205a157b8dca704a362441f3fefc8361ccwid5442f0bb7c6ca247ff0d1d02ef46677321514ea4186d
0203ab7387925d0222800ce2078c4588bc50cdefcbe04bcdef4593":":":":047a50890c28e26bfe4ec0904f5369"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,0) #6
ctr_drbg_validate_pr:"91b955a3e7eccd7f07290ca4464baff":"b1604654488947d5ee1963bb3e1a2f375fcd167ff3a3
3e41c491c1830b7c07413bd580302958au6fa81588ad2b3173698a4afafda468acb36dadb524207196b9a3be37ac2
CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #1
ctr_drbg_validate_pr:"452626b82ea35f8558b4e1d08388f2":"952f3f179cbbda27ebd30f4f3c1b96bacb2dabaa9c0900bc0f3704aa4e485b3bc668c3533fafa565bd5a9242844d657337f1c1f5c38b175749b88e181d1967277b0ab54e0abab
d45191b07e0c25578f64ad0d0b0ba26275d6e2f4906aa70:"6b167c7eebeaa2e585ab974b60c4d305a113102ac83c
c87651665728c4c675a";"a038f1ca1f420eae44979f1f3be4901fb91e4e052e02635b1f1817bd89699b1:"745ec37628e20fd1f9151f7040ed94a"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #2
ctr_drbg_validate_pr:"c1aafa90f394e0ba9a528032dc7680d3":"75fd042bf994de2c92e5a059954ec93bd7e3f6ed86a536723fca3e9479ee17f596ca8ba89874d43f06cdad113e508e1e2427ee0714439d88dc1a6257fc91d99c1a15e92527847ab1083838c8f471cad8cf0882f5bd33a846a00dee154012;"c704164e8ce8a0400c2f54d1dbd7c7efa20f32b699f8a81bfc7b56cfd7c4beee1af6;"f3baaff46f6d2c8e75b7o2ca72a027b14a99ae49a547eaf70f538843c94e1a69;"7af9113cd607c7b46534f401fe4e96c"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #3
ctr_drbg_validate_pr:"e6e726b72e7b26d4a3e6e0cd6d04578f5;"0c3c6d70607656d8484793847559b4957e8e98c39cd60e2079c997f8e9c1140ca0460226e15308a66d464a1cf175149f82a99e8a05d30c3cc0dd0663bc1bc3e708e62834f55a4bc8c1d6442554187848f1sd79417d5badc5ba54;"d84b9784e3c08f81e23d192eaa8ac21e6e667215804b51752a7ed327f15c5d7";"9a9871f6559f7f19773a949a29f57d1919ad305f416756c5e729d05e7545a5;"ec1ece5bceca30f1fbcad5b2e2d7c24f224

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #4
ctr_drbg_validate_pr:"0272d86b28324eb7ee0ed0485b9;"08e3ce93f26f71e19f394281a8db9070f39a734a7a20e70307ffcca17db15bbae8a421600df11d1a6f7860a14826739322e8043649ea07017810f1d00dea752c2ce3639830519465864c4d38163f5b055be07d0ca29693ad4a6f7ca69f28414643;"aa97055c4f6b26465fbfe1cf93191625c352768b2d834459499a27920e50;"dddd0007eb29df942220e920ca0637db4b91cbfe898efd2696576ff66f8ac9d1;"9db0057e39aeca6e0f16e794bf8a0ed5c7"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #5
ctr_drbg_validate_pr:"a48f72a0d0e28a758722b20e3017d7e;"89af36a1c55f730c1b8126aa5150627b17e69da51c8e53593de883b7c7a3ae8c3e463c91064ace3ff08f50bc8ea340dafa9322d133ae453fde7e680a277ff4495c98875431ba9de3e4f3247adae62c0ace8ef7060448f693db8ba85249337377;"9d06b7ed63dbd59263c75ebe6a54bfa34ae9c9926ca8f0b94ca690a2651eadf;"0160099232dc44bb7cbb492f4955ab1aabc5dcb05731447cea2eb1d92e41482d1;"4b658e95a4ae4bf0c418fed43431271"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #6
ctr_drbg_validate_pr:"aa19b944e2e1b9d27933b8c87322bf1d4;"dc8e6d0dd2c85fed86cb32af035b9d8375726eb07991397ce853256f2f0cb311bece70e1ce532f3c5310420d7de3e63a6f5843248409893543c820579d09b9fc6a8e158d4a46c3b0ce11027a06bf5a2788d;"6b9bfecf57de809f9df80f6247373831edac8e23a767af5965ea8bf789b9a;"cc998bd575f29e96e3c5d9658cc88333d6ab80c7accd6777c06c2f7c01e59f;"fc58833e0e2f17705e4937dd2aaddb238"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,0,256) #7
ctr_drbg_validate_pr:"10e8c17a25041e2e0d3cc8067f1e4efe;"51f3b96b6164ceee801e52855aad28cb80131e7872d8a32d2794f7462d801006bbcb8b8f50c662e23073778a847d6798c3d8090469b9719b9a80ac956a31386b0e8cbaca64c5530421f93932bc7c98ee92651e85dab562483dbdb198676082726647;"240f36a0a598fe2116fafa682824f25acc35132f137f5221bc0ff05b5f01ff9d7;"22a5e5baa0039a762ab60a8c2647eebe1083f8905104b5d375ed1661b4e8478;"145a161
CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #0
ctr_drbg_validate_pr:"e09f65dcffc0d3a4d84bacc14617a4e46c5184eea01049ab657566f72e8a4aa28315ffac166ebe50c1269b01c95b3a2":545a783ae97d827ed0b81d9752da0f7e965f511bf5dae0872e9ec37cfe63af86c1d1e5153887989b605773b16add55056e6f17cfa8e4f6547c4c3f9d0cefd0b6e1cf5ca0f1929266fe43ba8f4ad664cfe5e90903a9cb722b42ae8989e1c48":"1e77d7cc18775fe9a3d3e00903da01b" 

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #1
ctr_drbg_validate_pr:"056cd44c8847d89da05febf9e5960d589046b0c02f9b42c17fd8b06f98317c3c8d98005ece0811358996ff07be6e42ea":"d06c0850e642620e2b222ca7371213c59cefe8c3e71e0593ae8edbf54e1bed1309b0aeb0e9893039b50c52156eb9b338aa4b0d1da030515726e1cf751660b4a3602da6400eb494edebba646b5c3d464ceaa1c4f14b7a19f01427832427d":"a790ab3993e63555d02ea1e9696051725" 

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #2
ctr_drbg_validate_pr:"73c72c7df1e38f4b9817d4f9722b3940762b39bda2b63f6bb8b30583e01d88a29726b71d36f6eeb387010cb1b6":"690f52e26f5abec0efceed54913c650af5f725af4f4a05f37d6999708706f9041d0189a204f6a4eb527dafa86584a33bee3265b809c3932ae5e7228194a3cf7592f9301c833b45a53be329c9acaec9f0f918a6519f12b0b235f684191e":"798d99f746ff7cc4206994085340325" 

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #3
ctr_drbg_validate_pr:"cdda7e703c334852b7ca1a6bb33edab6364fd5363d0395d1001c02ff0c02e4c8e595ed2b5ddabc9233723eb6b457833fa":"532960e2c3e8b2146676d052ardeb953491941abf42a1c1574206937daa41289ae59d9353dc4ee4f77cad230a4f345599e3bae407118324483a0b935939e96d8b6ac6e0d8b52f8795c44171f0d8cd0be1e85dc75ce8a665d52f546016b6a0":"9d48160ac60f1a82b3aa8a7d804a3d8" 

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #4
ctr_drbg_validate_pr:"02cef01aca9929f60a12db4b2c4f4e89e4972a69def3663082afed642c1502d6b742d490af1c52c76eafa54988e2ca":9216c9a833f81953792260a686eb7c3dcf85565ac6a6033203741a7636db056247080e0ed5ba1fe4549ac3a757eba535ad786e810dadaa92714d315f1542ce8e8110869f12394f4f6fde1e8aaba2d88f0ac25f4740108ffc6ebf2eb2d857":"d6378bcf43be1ad42da83780c1dab314" 

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #5
ctr_drbg_validate_pr:"d7d8088e4e9d1fbb9315c3bce1510dbf22c11fa541779d193a3b0646cb30957959b6f3d7e3d861b1eb41bf299d9ed81d":80d4741e4e646748b6b5e1289f19b3c21bfeee4d0a666b301f199d76b4a83464583507079b069946b0366ac81eb9e6a8d40812018bf58286a0c4de7576f36f3c7e3c53126f481a065ac28bdf28e13dcc0e17911db343c47d613f1750dc6":9165a92ed922482b2d2379f46d39bde8 

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #6
ctr_drbg_validate_pr:"df5a68d3b3d3be467fd69716f5f8bcac2975948b573921af8b864ba76aa6dd98e938b9e359a5a0d11aa9b4ac8b5937d2b15":52d6f6336f93781112ca77bd8b99c7b1787fe14707974a21f6093dd9205be378acaf61329f8831369b41a0af9edf25d74f58f632b6859ad9c920767b113c47ed2690053b92f7ca67a8d680e088657209eb9f76aee97e3c93e6624b6ddc":"e542cf248a163bbceee7b9f1453bd90b" 

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #7
ctr_drbg_validate_pr:"2945527372f71edf5a776f55f7e4a247544a6de974e81b2eba5552843ab6dfa248695f4f322a43d4bf3672c3a6b2e":"aa560af2132ceb06d2a69c9a7e733cd59af4fd2e61d2b830087bd88f30fa792ce43168fa86a1
CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #8
ctr_drbg_validate_pr:"b30cb767125674f6099a5e7fcb2e4f5b6ee1d1e32fc1e393b1c5698b52b379f71f1252a17cf1aaf
f3233d5f391bc486e":"2d42b00248d59d3978a24ce04d6366eb1ca2edaa64daa33333159a9eafa4e1bdf813ac184ca2be
52e153c3a977abe2a505243fc1064eaf60f71fe0f20b9b106ea8965645a73d8e6bba80251db2967149c7010e1d
157ce189b03bf1bff1ac"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #9
ctr_drbg_validate_pr:"c962a2da4524f08a0addc5e4da0e4e669ad6154ae06164645e80c832506b989919451c7ec1d3a
6a970f483def8f6e2d":"a1f6fba88e5843e47576b158821dbaac1730071a1add3d25353671787f94bf0ce3f9383e8d81527d8
b8da150d3acb264676bb53d7952444b79f95063f4a979d998fd041b79190323888b657d30c0cb2dada264add9fd13f1
f8ed10b742d2d65b63"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #10
ctr_drbg_validate_pr:"a3cc1fe561d05a055e8e0ea0713eb490e4bd4e68393a5b98c2ac013dbf215bdc46783d2a3e6b9
d1597b7a880eb15104b":"a1f6fba88e5843e47576b158821dbaac1730071a1add3d25353671787f94bf0ce3f9383e8d81527d8
b8da150d3acb264676bb53d7952444b79f95063f4a979d998fd041b79190323888b657d30c0cb2dada264add9fd13f1
f8ed10b742d2d65b63"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #11
ctr_drbg_validate_pr:"a3cc1fe561d05a055e8e0ea0713eb490e4bd4e68393a5b98c2ac013dbf215bdc46783d2a3e6b9
d1597b7a880eb15104b":"a1f6fba88e5843e47576b158821dbaac1730071a1add3d25353671787f94bf0ce3f9383e8d81527d8
b8da150d3acb264676bb53d7952444b79f95063f4a979d998fd041b79190323888b657d30c0cb2dada264add9fd13f1
f8ed10b742d2d65b63"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #12
ctr_drbg_validate_pr:"f4c45fb8f58b7ebf73a0d81c6a26686977558d4b8f1c0d6cfd63754de6aad5008fd722084373
c4d0d4bb041592539":"6b1e94d45c2ec598de7527b641a339f26192fc0e43f5eff4b3a3a20e0f2e09743031804d1be12
b3c7f6f6bc222db1d972296e20f9d3272ee019f43bc6e08370894616b70685f826ff1fc92ae4c4f1ebe4d15f770fa16b2
059e47aef8e3d8e"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #13
ctr_drbg_validate_pr:"f4e45f8bf587be7f3a0c8d1c6a26686977558d4b8f1c0d6cfd63754de6aad5008fd722084373
c4d0d4bb041592539":"6b1e94d45c2ec598de7527b641a339f26192fc0e43f5eff4b3a3a20e0f2e09743031804d1be12
b3c7f6f6bc222db1d972296e20f9d3272ee019f43bc6e08370894616b70685f826ff1fc92ae4c4f1ebe4d15f770fa16b2
059e47aef8e3d8e"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #14
ctr_drbg_validate_pr:"7120742a7807b66ec5a9b509595d49a45b9451bb795393c0d8a30ae665879269408f8297d49ab
87410a7f16a5a541bc":"c80a8a9f797ea668cd1d4b33eb5d23e921e637e66a962597f8733e45a0f3ed3dbd4394cb
459453b948beac1e32d3b6f2817430c3a12fd6f6d6cb98587e7a413881bfc2af4ef4b632c473be50a87b98215be589a
91ca750d875a0808b89"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,0) #0
ctr_drbg_validate_pr:"add2bbbab765898ec3216c5f532b36fa46ecaea72072d3845a32d34b2472c4632b9d12240c23268
e8316370bd1064f686d":"6168f1af0b5956b859997b743f1787493b85ec9313ba94f6ab2ce4e88fd6a0b23afdf162
CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,256) #1
ctr_drbg_validate_pr:"8964ebde61f0fe4e23f8e91244ae9682ed0b17e424ed4c025b461a2d209a358583f29465df3f89
cf4f703b7f15ff59c0":"4db8ea27f7a0378e37d4cc01b6a465d34be91f48c52d1023e2fedae214802f5220850dn8777
dace10c3d441b58f64edc7d4df3d8ca39487d80504c6df641c9eb0333bd38f5c5770692519258273f3b2a1957fe5f397
8798fed78a043422":"5eb3fbb478f41815d8007cfec7e3eb8441ae79e77f80b013b5ef68b693a1900e7e3e358f7f9e789e4ad5a78d7398787addfb3ae5b06d826ecce2d54425289dc9af:"9a66c015d2550e3f78c44b901075fabb"

CTR_DRBG NIST Validation (AES-256 use df,True,256,128,256,256) #2
ctr_drbg_validate_pr:"98784a7a94df504008906e08b06d88a0833b1fe2aa28af57952397a2109c2eafdb9194079f36
09bc6d2331477c71e738521e8e127e70ada25937f5c5d830799bd40242348ec6e7ccba86c31e850f19f13bd0b58
2c54f1b5354048a320a15b20eefcc8da344e7f94adege4847818c859831907992dogadalz240d3420a9835e49b88d86e
25b34ea74eb3d110108":"b14c5314a911c4f345734e747b844fbf51d480d94d6998b0e3570f6636aa72":"d62089123482365ee0ed250892283d9db75899769dd109cc2f0fd2688ddcc66b":"5ec75f1dd3a742328e1134478b46b1"
ctr_drbg_validate_pr:"1e4644df1d01f9a0f31d1d0c67be9f9a1ee2223fbbf25520d3881cede2b183b73fe1a8cc55f17796
cf22aadd57607420;"cdac62b5e4ccee8609b1f4b7a8733e69068c71219b6292ebcb318b9d3479516807af280ca20e45
5d4e96eb7694a3b963957f3c0996f1e1199706d36a0111836af890f3b7b15cad6346a06fdd0f194df40bfbec12b021b0
2eeabaa3d435b30a3";"1869251eaa55ce534e6fdd0e8a2956d32ed73be71d12477ceaa8ef1aab8251b50;"865d14eb37d
d160a3f02f56ac32738f9e3509da9e789a1f200e7b7961ee918a7;"ff11ba8349da9b9c87c6fa0e242a0fd7f

CTR_DRGB NIST Validation (AES-256 use df,False,128,0,0) #0
ctr_drbg_validate_nopr:"1b54b8ff0642b251f151c4b0665f3f;"5a194d5e2b31581454def675fb7958fcd7db873e568
9fc9d0321768d8033370f9f5d48d24e0f9d8ef049092e;"":"":"":"":a05
4303d8a7ea9889d903e077c6f218f

CTR_DRGB NIST Validation (AES-256 use df,False,128,0,0) #1
ctr_drbg_validate_nopr:"99bcb555b9d66aeb1774a583f98cad;"93b7055d7888ae2344fbf431e379069d00ae810fbe
4f82e06c20489e04b091d0de853525ead0e7f199ab00f0f864647633f3958c5fd6d955d4f9278d;"":"":"":aa
f27fc2bf64b0320dd3564bab9b03377

CTR_DRGB NIST Validation (AES-256 use df,False,128,0,0) #2
ctr_drbg_validate_nopr:"3a2a7dcbde58b8b3c3f4f97beb67b2a;"58364ceefad37581d455b7d42ac4f9aaee226ef4dc
bc9868ac8df8d20b3d3b2400a899bafdf402708fadd8f0a5f8490aaf299f38471b4075654fda577dad20fa01ca;"":"":"":"aa
5117a8aca72ec5ab91468daf44f29

CTR_DRGB NIST Validation (AES-256 use df,False,128,0,0) #3
ctr_drbg_validate_nopr:"91baa1347ae2b3093a607c8b77f7b2;"2044b8651e19d99317084cc6c4a1f502dd62466
a57d4b88bc0d703abc562738021ac191cd65cf918afec9c009fb1a2cf42f7d14cc9a53ca5cb715482456a;"":"":"":"ae
0caac97f532228b38578a2b3d05d

CTR_DRGB NIST Validation (AES-256 use df,False,128,0,0) #4
ctr_drbg_validate_nopr:"f599f1bc010aee3008801fae512898de;"77d0f0efbc7ca79451d9f96e85b8e7efdf4875b8fb6e
5593ae17908bf6dcd313e051cb7d659c838180d834fdd97ae3ce7f605aa1b39a36575384b000a35dd98;"":"":"":"5d8
0bc3fffa42b99cc390e8447e33ec5

CTR_DRGB NIST Validation (AES-256 use df,False,128,0,0) #5
ctr_drbg_validate_nopr:"45a88b33062783e6e09b06a535bd44dd;"6bb14dc34f6697591fa5453c4899eb5ace433a69
e358e9919a464fdd0888429d13671f7f3191e911b3b355b4b2426e242ef4140ddec9676371101209662f253;"":"":"":"0df
a9955a139e5735a3546a04108b8e9e

CTR_DRGB NIST Validation (AES-256 use df,False,128,0,0) #6
cr_drbg_validate_nopr:"0ada129f9948073d628c11274ecce3f6f9;"b3d01bc4bc7747db7feb5a7de92807aafa4338aab1
e81c1e1eb50955e092546d19ae8913660c070b079037a5aeb33f07f4ec894fdcd3af1e2867ace1aa05c;"":"":"":"f347
10c9efbf9d5aaa5f797fd85a1c43

CTR_DRGB NIST Validation (AES-256 use df,False,128,0,0) #7
cr_drbg_validate_nopr:"052a5ad4dcd38de905d3e2fc430fafa1;"98482e58e44b8e4a6b09fa0e2f05fccc491da03a479a
7fad13a83b6080d30b3b255e01a43568a96dd5eefc9b0ce9fd594d69eef8fa88159b2da24c33ba81a14d;"":"":"":"3f
55144ecec263aed50f9e9a6f1538e55

CTR_DRGB NIST Validation (AES-256 use df,False,128,0,0) #8
cr_drbg_validate_nopr:"004cd2f28f083d1ceee68975d5cbbbe4f;"6238d448015e86aa16af62c287f1c17b78a79809
fa0b8c655e06715cd2b935bf4df966e3ec1f14b28cc1d080f882a7215e258430e91a4a0a2aa98d7cd8053"":""":""":""":""":""":""":""":""":""":"b137119dbbd9d752a8dfece05b884b6""

CTR_DRBG NIST Validation (AES-256 use df, False, 50, 128, 0, 0) #9
ctr_drbg_validate_nopr:"985b3ea2d8b15bd2a6178195a2f57cfd":"50d3c4eb1d6e95aeb87e9e8a5e869c111b945dfade2e45ee90fb61931fc6d476005a5df24bb9efc11bb966bb21065d44e2532a1e17493f974a4bf8f8b580":""":""":"eb419628bfc441a60a38a26aeecb3a4a6""

CTR_DRBG NIST Validation (AES-256 use df, False, 128, 0, 0) #10
ctr_drbg_validate_nopr:"100f196991b6e968b96a3456f6f2a9af":"d27beac39a6c899938197f0e61dc90be3a3a20fa5c5e1f7a76adde00598e9555ce1e9d102d45b2e1ae9ff0400be8944bad85c5e8341d1bdee014057da98e3bcb":""":""":"eb3e09d0ed8274e24a20553f1d1087c9d""

CTR_DRBG NIST Validation (AES-256 use df, False, 50, 128, 0, 0) #11
ctr_drbg_validate_nopr:"88f559b9a8f6e7828483298231133fe":"169f5535d624c5a1b1f82c750e05f51f2a2eeca7e5b774fd96148ddba3b38d34b7a71742567c52087252480d3d5ad1c69e4aec8472a154ae03511d0e8a9e95a":""":""":"e7cd82101e2f03f16d8510c23b86baf3""

CTR_DRBG NIST Validation (AES-256 use df, False, 50, 128, 0, 256) #0
ctr_drbg_validate_nopr:"176200bb44808b5400b24c1b5f5f6c73":"84d395b1734eeac4600dbcc36f6b1e1599bc7f2608dc8ebcb3a55369d7b1b122a091f9ac9e16d9a2be37d2ff70a9bbab3723cf3785b23ff4ade3c8404da3f0995a8f":"aef28e9c1699e9af747c3432d24a65dfdf9e4a53433de2e4cb9fb3f38a08868c8e6e1":"0626ae19763c5318b27a8d65cfefbaf46d6fd6773242738b9b18fe8d8d66ade1":"63c1e60ed6a6c1ffdf0586f52fa488a9055533930b36d4fa5ea3467cda9ffe198":"e8f91633725d786081625fb99336a993""

CTR_DRBG NIST Validation (AES-256 use df, False, 50, 128, 0, 256) #1
ctr_drbg_validate_nopr:"19e3d16197ae93bf58c41109e864804":"50755ce0178e6a8e70be7d7744f6f1e36faa59b3bce4847a744446079ce7ae8d3c4965516f9b52c63e1d0561d92c0c50637465815ecde5e94c9ade4e4064877128":"5cb882d2c97404f3db1909480c597dd081d94ca282b28939786a503c9ba6a9b":"96d130fa1f917920c2bf57bcd6c02d5aaaf7d3c840706081e4a50e5f5388bf6":"10bd0df179690a30d501e8ff682201dbab6d972ece2a0edfb5ca6a8c9bcf47d":"4628b26492e5cb3b21956d4160f00b911""

CTR_DRBG NIST Validation (AES-256 use df, False, 128, 0, 256) #2
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #3
ctr_drbg_validate_nopr: "f189e9146499a982343e09230ff34069": "5e029c173de2c8ab198518adb008efbfe862f4187fca84e4ef65b9868305db5ab599c5a0b7f8b535ada347f58eeeca0a9ed4799c8a7347393c425273e441": "b51f5d5f88a552a0e9b667c2750c79166e37c00c850a0be3776746d83c3bce": "9b13a2cb2bfff8b4807a0a6954a9ee6ebbee265f986666757b54536102070e0cb48b71": "f1e435ef0b03af222218ee46022623872a2d3e09bf5b36a8cc32a5a2220b0865f": "a065cc203881254a81bd9595515e705" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #4
ctr_drbg_validate_nopr: "0ef2be2d00a16051404fc2a0fa74a174": "b66c882ae02c5215ed3bcd9e9a40934b09bf48a15fe75588b99cb0e6b6e6325e1a8f7c3a34d9f7ed8e1d8816edecb34dbd71ae027713275ebec74613dadd": "1ebe9893975a5ca707759396d31bb201e88d88a22ad6baaa6461ec61de7f7ff": "f818e26744843413b95af84d38d000c7e69f8929a33e35e5c6751a5a20950": "678a848b2b6c715a0e613b3f3bb16cf2f056543eb9d6b8aee8de8aaf81ae6": "a6c4a7e99d08cc8474ac0b88c8bfc22ec0" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #5
ctr_drbg_validate_nopr: "eb2439d156c4f5f1fb1943c2f62f7de8af": "ad15f3d66d9f73b21f4e5e888d3d313ba8325abdec427d5d8f671cfc6cbbd3510e9774759a14db94722b1217b7bcf355436a51965dd2f77e4ac58a8b812f20d326e": "e24b2d6b9a40f0a002c5fbb3a2828f863a08e154be338db193148d4ff7a180d": "d40baf11d7cd776412a4b6916b0c12980e02612ef59b6fe7dabbbbe7a58c": "a40019e3b85d7d5775e793d4c09b2bdc825369b1dcb73e63a188b066af7d0c": "7cd8d2710147a0bf7053bb271edf07b5" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #6
ctr_drbg_validate_nopr: "b23796d888e5eae57f52ba4fbb5ed2e8af": "b249d2d9b269b58c5355710aaa9e8be12d8f2be79046b46edeece28adada7e789999847e20de11f7c3277216374f117e3e066bd99bb631a4c4e542c4d82840": "79f0214b6b0c5fbb21bd521498b71d2267e6407c1e6300a8bde3b525498907": "58b2e1e080264b3e68ec184347a5b6d8e8be1811578206e14ad84029fe39f71": "f5e9ce3356810793f46f1889d8c503b1c0b20a284bb348301ce7b2dd7a1c7dd": "1aa8cf54994eb6329e9eb897007af0b" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #7
ctr_drbg_validate_nopr: "081db0b1620a5a6afd78c2f2debeb1db3": "3f1e90d8870a0b0d3364036b655495e37e5d1b5f7b7b64aba0cf003430af5585f593684abba5502b8b66c54bae09c2d77691858c51899138add5f0e644": "5b9b8e83ae8bed5c49cb716789dc39f6e38d5d08dfda2a01ece9d6f10efe115": "aadd3e58f9dd98a60fc2ae0df3fcd734ff01a07f29f69c5f5e96b9629200dd8": "bad093e9bb7c3a440161353542a2b1c1a89b3e9b493e9f59e438bfc80ded31836": "8d01e3dc4882f016fc34655c54b8e1f1" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #8
ctr_drbg_validate_nopr: "a8427443d93e4a4bedc6ca061a2b2bfcf52": "b0eb9b2192a8cb81265390a634d5d40c3a4383290a8764bdf92667859d8333e72ad0ff41e07fe25b71ead11649b655c5a5df233114e7eda25588b7214d": "c6cad9fb17aada37d195df8f6a7fa463e20050e94024170dd2f3c34b80a50108": "be4619ac172e2ba682edef7322193e3a54bcee36921d4a946917a7c63279a6b0": "bd611d6bf7467ccf7a48a4337ba341d52508d0336d017ae20377977163c1a20": "16cc63dbf724b6b427126b86f3c7e86"
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256) #0
ctr_drbg_validate_nopr:"9da4da55adfc50ec51ea38ba4e484408b52a24a93c34ae71e1ca705eb829a65de4d4e07fa3
d86b3784af51e7d5f6d2":"a3e371017439193591e475087aaadd5ce1386deca0db6de0028d0fic41a477d04e5987b
2716731568d27b660fc6715757903d3dede19462dd4c678e793e":"20422c2df85ca16a01cfbe5f86d6efc947f"f1a2e857d
b2aa9f6c7b36581808dd4d6":"7fd81f6db2ab51c115d834e9965ca54020bed38edded9e07593f1e25ed573f7b5":"cd2eef
14693e4c9efdf260de986004930bab1c6557772a62923c9b74e9c0d":"f47fe6e94d798ce9d097feedfae355e"
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256) #1
ctr_drbg_validate_nopr:"6c79e155689b3c074fc083a120d7734b888c5ac8b78899117ce52e42a6b178d144441a9
f328c730951b02b048d":"c78ff6e9f9c1cbce246c9cc2366d5f7df669bf13b52d8997f36819232d6cd2e8cadda63e6e
65514ad9097ee10c40a1ff01fca1c30b8ab51ed11ff09d19e9a":"cc57ade98b2504664043ad66df50e9420f0be05b4e
d33584ee189e072d01fb8":"ab299e2d983a8add53e30ad90584af84d8458a4763e00ed42dbb72483ed4":"cc0d768
02e9f0250a43e28f2f89367de7f16f45d79c0fa3f69e4fae4ae3b6":"08e386265161bbf0844fa3439550bd7a"
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256) #2
ctr_drbg_validate_nopr:"6c79e155689b3c074fc083a120d7734b888c5ac8b78899117ce52e42a6b178d144441a9
f328c730951b02b048d":"c78ff6e9f9c1cbce246c9cc2366d5f7df669bf13b52d8997f36819232d6cd2e8cadda63e6e
65514ad9097ee10c40a1ff01fca1c30b8ab51ed11ff09d19e9a":"cc57ade98b2504664043ad66df50e9420f0be05b4e
d33584ee189e072d01fb8":"ab299e2d983a8add53e30ad90584af84d8458a4763e00ed42dbb72483ed4":"cc0d768
02e9f0250a43e28f2f89367de7f16f45d79c0fa3f69e4fae4ae3b6":"08e386265161bbf0844fa3439550bd7a"
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256) #3
ctr_drbg_validate_nopr:"5af77b2a8e370548b88febdf79772144cd5cf8d78062582add4df1e5c10094b390e66b3c4ef
b0875101d1b9d27503":"121a2c1391db3d7ade4a40a585995c0be7e358ed9ba1ca9aa676ad47847705d7da7a42f3
2f1715adb2af2a3d3a1c4e3c88872a42ab1a8ac5bc7db4ade38b":"023d582569a7ff405e44f09eebeeb392454e77228
6e4b87e6577a8ab091a":"3959751987249fbd186704241b1d0c1b0b48f9296b6d1597dbd655a1899":"3091c9f
e6109b41a63a5af00d716b5f2a096d43e0f9c97666a706fa56f":"1fb57058b3aa8751df5a99f01878983"
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #0
ctr_drbg_validate_nopr:"e268208d1cc6c128c47:89a95093da32a38b7c6fe92d2dd9c60a355ca5104a3528d71a3eacec2f6183179724991a0053e8daca65e535f3deee0435ee9f86364577e8edba32178297319730f588bee681d7f9be23a173a3e2bba441e1518329aca6bf0706cc145fcd7803e099e:03eb2c5fe7c2d68894a0aaeabf1b8d5e0b9ca5afcd5d82842696483ede77d3c0:74418ec336871ac15eac7d402f1f7d8823a141bb89f92ca86dccc59ff8a5ad1cf:194e301873cefe7f1610794006b5def5
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #1
ctr_drbg_validate_nopr:"8a35bbf90daa5fe7f4656f3536d1f0c3:5f1985544c33999ae00f69655db7a19786700ce56f994d662e26b046b7e7a5a995932c05295f6ca54011085e5c26a1a8a4e5f72e614f2f2acf0dfdbs34:64215cebe384f14cf548078ff1d5191ee9a8bae5aaccdf19ca16bcaef354fad:2e21d6f38dabe24aebf62d97e2f5017f10821f2d0064f25a44d3c02eba7056070f217606d2:7973624f74a466cbf69dbf46db79f3c349777df683cb46112f2a3b44343e38e:25469cc8407b82f42e3f411dbd38462
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #2
ctr_drbg_validate_nopr:"7d7dda20a90870804bfc37bd7472d3b0c:1d72d3c2bf2f2c115160e7240340adbf31e1c717696d0fde5e3c21150fc00cde477d3e2abbe32f399a505b74d82e502ff94cecaec87e87127d1907d76532:721761b9131b1f50125abca6c3b2f229
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #3
ctr_drbg_validate_nopr:"c02eb3b6d4fefa7ec517a232f48aa8ac8:0820f0e21cc6ca6b2fe053a269a34e6a7637dedaf55ef46d2666672ca7f9cd9cc21cd807e2b7f0a1ce640b4f059592ae6da7282c5c32959fed39f734a5e8a84082d:667d4d9e9386d662440a17965a334
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #4
ctr_drbg_validate_nopr:"9ae0326f9b16f88a4114e8d49b6e82c8:ef00aa3e3f9c425253205215e5b0afad70f14ad8cc72a332247cfe989601ca4f52ba48b82dbd400e1f279979b5aed1ae2e2b202d2e921ee2d9ceb89e3a9006b9d7:651
ad783fe3def80a8456552e405b98d"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #4
ctr_drbg_validate_nopr:"1e7a4961d1c2fd30f571b2a763c2c5""a9262ed5b54880cc8eed4119ce9afe3de8875d403
f7e4a68bede88859470b29e644ddd83e127c5f938bca8425db169c33c52d0b0c5133c8f87bbc0b0a7d79"":"":""12
124c509ca52693977cf461b0f0a0da9"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #5
ctr_drbg_validate_nopr:"ae0b0d2e84f48e6320f31356cedeaa60ac""554cf6fad1c376ad6148cd40b53105c16e2f5dd5fa5
64865b26f2a483c318150bf2294ae711735df5eb86ff4b4ee778531793bad42403d9a80d05c5421229a53da"":"":""12
12e5d3070b1cf52c0217866481c58"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #6
ctr_drbg_validate_nopr:"16b8c7495d43cd2ff5f65ad2ab4eceef""7cfe2be0f0d42374f7263a886b7fba991e59c36d735
9c0bce334d635a5a328flae85edd3ada75854f251ee9f2dec6df247f646c4a4f6983805aafe9d3106"":"":""d3869
a9e5004b86a8ed8d06f461b602b"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #7
ctr_drbg_validate_nopr:"a2d5eff6f73f98e5b040c1967dffa69b""59759bb91b3c4feb18c0f086269ee52e097b67698f4
dfe91ebe8ef851ca35cadb3f22d1309f13510e12528567139a8e210dfb37a9998865f98e8744"":""a1f9
9bd9522342e963af2cee8edc5c08"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #8
ctr_drbg_validate_nopr:"ea1f47fe5e281136706419ec9b652967""0e7c617f850ec74044111020e977be32ab8050b3
26ebc03715bbbfa5a34622f2264db541bf783828c121ea91981155a64fb7b902e674ae4a18a86c32052b"":""":""d9f75b8288fc66802b23a5f0d04a9434"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #9
ctr_drbg_validate_nopr:"6f072c681a82c00dcd9d5f7b57fa2af""cf7dce90f041e80f6bd6f3d981d8a0a877d0ddae7c
98f9091763b5949fc385d6e16f9848507d53521ad28daf5d4ee9a4725d617fe94598598784d"":""":""39c
0444f28c5a490e6f62216b2384602"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #10
ctr_drbg_validate_nopr:"9d730655366e2a898ee0933b2d05a503""854766842e165a315519606835baca1628a95
20d29c3cc4f6a41068bf76d8054b75b769f5865266c31085e9f0290af37c5d94535bc5de9c854e1cb36eb7"":""":""b2a2a3ed6fd049d0f1589639db8c70ef"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #11
ctr_drbg_validate_nopr:"3363881611bdf5d16814360e83d8544f""6abfab14cb22d255d3de930a38941f6f271b4894
3e46f6e979fe30135b9eb30204b77ba416ac066da049c8558e5a0eac62f54f26e66c207abac461c71510"":""":""5
be410ce54288e881aced3e566964df78"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,0) #12
ctr_drbg_validate_nopr:"14e589065423528ff84af1f89507ab519""0d2e446cad387a962ff2217c7cf4826deabb997ab7
f74f64a181bcb69151993f263925a7e171f9dfdf122bb61802480f280390efce0a3f37e97101893c140f"":""":""fc2d
3df6c9ae68f091d8382fcd82104"
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #1

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #2

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #3

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #4

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #5

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #6

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #7
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CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #8

tct_drbg_validate_nopr: "5a699113ebf98bf9cbf780ce29747a61ba2d7581a571605d018c89348d7c2ed3f5bb0a2442c
d192c1e37bbf79b9f57f191"; "de62a32ab3a9a0f7083d3b1d1976c61d495666965e4e974aa4c8d28e6a7a40b254b8606e2
t209a8c4ef3a6e15b84f5ae7505957a57e8266a4c3e915d25f"; "ed18c16a61ba5ecc0755f94c286390ad646e6e264
d39add36c83edebe442d4cb4c:"; "7c4550d058b5580be2053f9d9393ce87041c53f62a5bb6302359d4af90d9411"; "ebebf
cb94b3595e516939ca0688422bdde4bf9f7bd6d619757cb3157bd7908"; "1a5a496a2268484344b3740ce494c1044" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #9

tct_drbg_validate_nopr: "42450f2689b87a3dd49f3b9e3b32d4645c72a42dd22c2f006694321dacf1980b50f7ae040
d1626453ec836093bd9c"; "47639ebc6bdf333df3b99ee292e4381fd80b00543111c53b949c5d72c5828e99ab08
d1575b886616cabbe5e1d3d8a870ece4df97b5767ce97020df122:"; "66e5a7613c25ecco263a2f2d2888948b2df9a05d5
0040c4031b06538788dfb6067:"; "68a1038481b7e12d6a76c744d4ba25355e9b55ea301ee800d5a846127d45c7:"; "7a1
c95f78e6da2dc7840cba4039d66d07571608b77857d2224e4531c17e1b8:"; "80a6c262e4459f9a3915f8a9c76818" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #10

tct_drbg_validate_nopr: "873869e194201b22b140bddd7797d1de408f2190b759c066b70196e707f60751e101d3645
c4e4c57df9d1ea7579f4a44:"; "d2f92706ca3fb9ce63b183c74704440d7eeede15142ce2812f65ac83f4b62dadfc151fa68f8d5
f457a93211e8af82e93e6a15b82efd0f4ada6e6f2d2710f:"; "8d0393d2a1ea8930ea88773dafe7b49060bfb2d3
d2f2acc577686fd1e2d6f:"; "5b6f5f4bd9e9ad8b82e7c759b043d6402fdaa1b2384e3999be913147a:"; "6d205e28
es90502a3abf2ee72ab7f5b202ecf5acbf27e0957578a709a412abec3:"; "e1ceda718f6e4b4b0d1d435b57a9a2b2" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #11

tct_drbg_validate_nopr: "1fecb5fe87c2a208b4f193e93cf810954c554150d544baeaa1685fb4774320135d5cb6511be49
3ef120e6f966e371518c:"; "34bc292809674352fbbfd60786dca959ec79918aa401b366a48ceddd7c312e4e666bff3a0
d53d4dcd719116d50f0d192942d9d73a835f8e5979b197c0d:"; "3824ef3da40907766ea249267c2613a6515e5c5b
73b541df7d314b5080601:"; "115be9b914b5040bffe078df1810780b56129a0a74271dee063f80e0a19e1be1:"; "69f6af
af72235fb1b55f35a5447f8181579b174599005335791f6e507e1d5b6:"; "60cc9d3ba3f0715f5627182334ed1b" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #12

tct_drbg_validate_nopr: "a6f488104a6c03354d5d1805e66c42d6c3016322d18270f7a83f9199e20f6a1bcf2b885936bd
a11875f9b7294d557ff2:"; "22f8ad57a2df0a1001e2865ad6268326352917b84dfca616369ef0d1dbd356c35e472711095
d696986212df7e78410c0d0db940f47565d25e27616565d1a5d169d:"; "fb995d563f7aa88db5457847ba13049c5f7977444867a28a4d7edf53522a5:"; "b1ece7bc56e79e497e63086edc322cbe7bc42f7ba14261225ee081ed5d59:"; "0d12ec0a39bbf87194e40706f6b54caabbe48faba192b96cfe2f2a794df59299d:"; "62a1c5678e68fc738d375e2ca48751f" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #13

tct_drbg_validate_nopr: "a6f488104a6c03354d5d1805e66c42d6c3016322d18270f7a83f9199e20f6a1bcf2b885936bd
a11875f9b7294d557ff2:"; "22f8ad57a2df0a1001e2865ad6268326352917b84dfca616369ef0d1dbd356c35e472711095
d696986212df7e78410c0d0db940f47565d25e27616565d1a5d169d:"; "fb995d563f7aa88db5457847ba13049c5f7977444867a28a4d7edf53522a5:"; "b1ece7bc56e79e497e63086edc322cbe7bc42f7ba14261225ee081ed5d59:"; "0d12ec0a39bbf87194e40706f6b54caabbe48faba192b96cfe2f2a794df59299d:"; "62a1c5678e68fc738d375e2ca48751f"
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #2
ctr_drbg_validate_nopr:="c7e0ca1d7b5e83af258cd9ed81264d":"5e8c0f0dadc170ed0f5e12f97a69b9e585f9d7c2926c
c163686aa7242945d88fabecc940d752554caee63f1792dc96e7a325f61997ba883559ad66f6f8cf09898a"":"a2c6fc1c9e4489f504e117385f08aa82775a2b0a84adb07ee3c6b393d7fd50":"c7529b87e70d4b8761967865d100ce338e91e1b93c4e41df2474eb4a814e8676":"63e6e7f35485293869cf74ae5ce52e8454da5db9a8071a9b60f7730a61582b":"43b7931e0b3b3769e8972d0026896a3" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #3
ctr_drbg_validate_nopr:="b4d1d91de488840cb65a49ec199ba3c":"e3daa1863d323cc7f8f34cbeb3f832de29130e6b2b3843ff5ae79fddce3f192b55cd3cafc8784d4d0189c0de77900b889e01be0598c2d30d2b333342ec50":"4142fee9b48642a1eb9bd1695314addc38e1a8afe489f6e33c5088c675343a2":"1eb3f8bbac0c6b90171bf7eda29f68e71fe056aad42dd38c131af68e1f":"85570db773f3f52029737673f9a1a9c9e89c4edadd58ec6210335fd5e7acef":"bd53036538d9ed904a49966b5428a2a8" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #4
ctr_drbg_validate_nopr:="5ef97f7af7d5cc6fa9f48248ce7b5c":"be6743ac44d77f050ecbace8112d14806bd9120db64ea768db951bb969c1d7c8de341212764a44af3ee453e59f633fa5a8c2f69e40d18663536d4c0227":"a64195b1e56cf97f8l9e9f1967c16a4f16253f5ec74d4b8bed0e71a199ba9276d7b0cfe50249e30c3024ee9db":"393ab4726f088fdfe4b47d52b1a2e67e41fa6071b8e541926227d6b3c":"24bd2eca5d5dcd3209425f11a24ce839" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #5
ctr_drbg_validate_nopr:="675103da4e7ec4d0b0357d7e181787":"cc070d6f3a3263f74afad85b9d1ef2b1fcd9e8093362512f109ebf922ed75b58b3a5e1516d702b6905e6be3c08d328ab6984d6eca274969673095b5df5d":"42033054ce47397f7af7d9836c852945ba8b40a7edba":"72972bf947bfff60d29188dddbdf91e698e0c1e26a346b955c75dace596d007":"af29b6a1360b2a9e6b118dbd6e6bc52e521119cf2e9663b8b1ec3e6e6312ea":"b0849f8317e043271a3f52eaaaaba2" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #6
ctr_drbg_validate_nopr:="2e20aa36ff475452ed8b0a177b8b505aa":"c487a7a39ca2f6dc3f61311f54ab3095493626a98ff5abe82826c67a4f4b4d6fa232999a6c8be5f387af160741c871acc2929c1ec0f7f2a7ce1619eb7da1ec":"979c148dd10c3d7d21eeaaafbe37a9310ed15b23872e9f2b62f1eb9e1a81ffe3":"23df0c30c68bf2eeb55dd273a596f54ed916271595b90e6477397ab352f5273":"22f120fa09215105116919aaf8eeebcb69ecc5d5a42fe737018a50268bf08e4":"b7c73b9ceea2e6ca0bea3773cdd6886" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #7
ctr_drbg_validate_nopr:="27069f1e1162a648e1e664b815b1b3674":"979b5a0eaf555a6ba152ed663e230e110df20e1f1227932a7a2abf82187ace76941efafaf901c0128ad9b930b628f7e601f275ef8e1c020f6e5b67e914f89":"d12f2b1089fa6d2f109c7f67294cd44dceba80cde7c2f8537c75453d985ef55":"4228a99a5f35547a58c1a4d842301dca3741f113e6f
d67b7c1b1b85863b73158":"a3a7d5f1e2dc9f5a90715e5c5f3d2e7f88c3880a452b0c6d1f07458db474fd6":"8a63a5002a3636b241f0bec14df9c2ac" 

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,0,256) #8
ctr_drbg_validate_nopr:="a7105cfc06dd0a6cd72fa014c0fae6":"c810cb9db0f169dcb30fda85cc6d4c40db68d429ceeb3653070db7641fbbaba0ef0f790ee4af87b875e154e2ec5331de7004689ec604e69927ad630a0dd7a":"5f99f45d8770041703e5a14521c501904d5f03340835ac0e41b86442e4939ch":"eb7efa6e4aeb926ea0e487eb9e454f5b10717bd9db5305f2d71beacb991b3":"cbe80c6171d098fc81023486d3272fe2415a0f325e5f66f793ce1de098783258":"a353f6b35040f3f7bf4b72f848a948a"
CTR_DRBG NIST Validation (AES-256, False, 128, 0, 256) #9
ctr_drbg_validate_nopr: "3959318376143222d4886ce6a2c4e919": "831f8cd63592b6ce358c08eaac39d67e3e48b4c261773566f5e9fa44d7afe9d00f2fc5f49db329d5bedc9068c94ef8f23c32b3091442ac53442127377bdcf205": "eb261c70a17c8cb1ae055e1437f01b74e96c58e2a476ca3ea045e7efdf5ee": "1532760077b834a3897efbf022bd1bca6cfb655c7e8bace69ba7c10b339ee9fd99": "a8a5cb17a2945e5b41ff370cc88ac498389b8b96ed282bb3b9ade81c212f7c17d4": "537fc2b73183d20c106886937a6609e"

CTR_DRBG NIST Validation (AES-256, True, 256, 128, 0, 256) #10
ctr_drbg_validate_nopr: "9a1983859dd6c4cb602970d7d05952b2": "68c5c3f11f7959ffaa83af9d55a75ec001befb835e42a789ac42d39d96128eb6d9b3f07ced15e57e39760390c65f4425c19ef71846351c18ec5ed28256937e1": "e06497a181a536298057991d2636f30ad4794519a6d2461ede8b36fc0ac5e713": "714e4cf52aa763e723a15f1b8949aab8fd9f4917658605595cbb49d78d51dfab5": "66b67f65f4d74ad24d2ffeb86b85067d6af6899233eea9f5189a9163d0419": "e32af8a18c59dc45450ed8845b447fd"
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,506,0) #1
ctr_drbg_validate_nopr:"be14f473472db07a9379a517735df77cedeaa70dbdb729cebf5780adcede97fe9fd97939cde1f7312624175b2123d7f":"ac71ff53140c1383eb379e5311e37637af933db494e5e89d065661e9095b88302e4174c392f324fae43695d9381e3cf4626a5347938ed9e21502cb789eca363":"4bab95f9f05f363376bf2582c2ee98"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,506,0) #2
ctr_drbg_validate_nopr:"88e31e24f4f859b668906e6c73f860621a707314407623b267ceab5a2d977a23d6df70ddba0e4a67866997a906cc183":"bf9b2f5a949d447274a8c721fae5139952f18aca39b1b377b7bd45c5e367d55e9d8bdcb71a9c59494162868b968883e57215bce20292894f8406ab39ce1ea":"841aaa0b171d1526ef365b9201adbf31"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,506,0) #3
ctr_drbg_validate_nopr:"686f4f9e7e43c40284f5b9d353d73dfeef727584d892e6b4db8476d1100cb4ae851e7e23ac9b5ca12979983e8947c570262a4ec292f1cb7576f7184007dcb":":1d0dca49a148198f89789558ac04bf18d9388b993e3bf722da8e1398b2e00b19211ed4eb5d21c4531515b0f9644fe806866b59fca813176e678079e8ed":":981dce30593de8a8d5b4d956f6c684b"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,506,0) #4
ctr_drbg_validate_nopr:"68bfabdbb821cb978527f81ce37c9efc79ae7d556551f36b6999181285a68854ec717251483c3395ad33ec40410064db":":73a9e918e1bb3965c6d9f43d55f3f8ed095f1bafb2656":":035ec3a24b7ac4e5c19436c2689a75"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,506,0) #5
ctr_drbg_validate_nopr:"aa82a5ea33439d0ca1ee13cb3ae3b169f43d96cb9ae819a93812965a0536ee47f20576c012f87e6b1c0202003c39d28453a22e502b4949ef5ba23a7727721bf":":de4ed91d16311e9b52470d708df4c869"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,506,0) #6
ctr_drbg_validate_nopr:"a53c3618ec06b609ef99dce77204b085ca9f852f1708beefcbbf45ea111e45c24f25bc33150ff97ce48244454556b85e":":1d0d1a187d596f28e118e1083d65f1ee0df316308a92c47503ec4d20a01d898216ca7d4e43857240fe94123426e028e6ed75e53ff8ed095f1bafb2656":":035ec3a24b7ac4e5c19436c2689a75"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,506,0) #7
ctr_drbg_validate_nopr:"7e3bea0d0834dfdf1829ac3d9722ef9f16c5b5f5652af5f7615af1164403d57095c6d6065d568c246820de46b9":":2026ef7e1b1e9645a3b759558ac04bf18d9388b993e3bf722da8e1398b2e00b19211ed4eb5d21c4531515b0f9644fe806866b59fca813176e678079e8ed":":981dce30593de8a8d5b4d956f6c684b"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,506,0) #8
ctr_drbg_validate_nopr:"68bfabdbb821cb978527f81ce37c9efc79ae7d556551f36b6999181285a68854ec717251483c3395ad33ec40410064db":":73a9e918e1bb3965c6d9f43d55f3f8ed095f1bafb2656":":035ec3a24b7ac4e5c19436c2689a75"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,506,0) #9
ctr_drbg_validate_nopr:"171a4ab694a7d7c2aa3cc3f103a9df411094e07a955ae9ac3bad370f1448753e59b6c323d1878ab66941433c2eac":":72ebeda7342270d3bce0c531754f946c5ccab884ec41fd9d089fe9147f9ad3b6154919c5cb2ebd162fbdde7b9ff0aa590a17993ca6c80bd59e4ee3434fc2ee94d8":":582ab4f105c3e1fed9539558cf335fc3"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,506,0) #10
ctr_drbg_validate_nopr:"caed30015b34064762591e1b9a59f440566a6621832f65057262229e8a38cd0f56d322ad5444132056690fdfa5540":":8e27f0dbeaee4613bfc01105f8242edeb5a150a830994f8f60783755216e016fb175e51d
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #11
ctr_drbg_validate_nopr:"e58d62f8145622ed6c8f6bda6b62cd26e4ce5610cd91cd1326b99b60355a6f6e757183c0f7f2cc21b1a68f1f20ca2709ad31":"38a8b685e6bbbb67824f4ce72995094ee2854f0672ffaeec7629e78f9df585a25bbec36c8dd0d75d06d43f694733982d26ce608482d0cf8053918b912e303a":"d42787e97147d457f1590c742443ad92"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #12
ctr_drbg_validate_nopr:"d9c618ed045d6f1d15e855690da451edac60f1ca2021f1fece577540fed3139e6261ac5255bf83b5ae99"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #13
ctr_drbg_validate_nopr:"ef027327e47fc8575c01be17d79f8e2bd27a5ce780072782481561fe8dd34afec167ae145b1e763bbecbca51e2f461a17":"128566fe6c8b55975472190519445c2d5b85e0e0c29371f4aceb213400d47926e2765515b5be0fa237173abb2140226a21f70082d9d4958ad2b26d87348e1c":"76cd1553bb273d4e6f043a09f90d679"

CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #14
ctr_drbg_validate_nopr:"006746e336760c9971be7a78973d75a4ef567b3ca4766722cd86f7e097d21cbbfa0843eaaa12a59999ce307ae634d76d2":"ec47b029643f85eaa19388b6e96deab22705b060ae10c3ee71262027d0dbff5f7d7393af61b9c66568120fabc87439a0bdl5a1255563a96013fada03d0d6f50442":"5bb92e4cfc78645126dada47044d79ab8880a07773a573999b985ad101bbf2c082b991de1383be8823477262ef53423f4g695b272776ced78db85f26439c1d4833e8bb9ef595b4a4d800ee2d4e0f548b6e9236365e8284ff5b61676a1f35bb9edc5df0a09fbeb95817578eb272a9a2df5092ac0e2"
CTR_DRBG NIST Validation (AES-256 use df,False,128,128,128,128) #4
ctr_drbg_validate_nopr:"0436075f8c6f62ce623c2301ebd45203e98282611cfa51a2dd7c04525ff7a7eb7ce3af97e0abce2285":"1ab9ada3eeebc3fe8c5f35s86e43476efcd4dd0902f212bce14bb1ff10df01a0c5b207aa009ff76a9caba0aace62b6a65b2650b4a488b8be28067a6aa4b6f4e8d":"6207df1f4e04f7f42985947ac4d8e4f2d58216d918f7942b9c70f43daaf8972"":"37ae7581f1bc890ee7e1d0854426b2984fb1c9049767e6a1546ed9315bab0898":"353idd0c8d86566bc148a6a3ace138edc62819d4e2b1b8dd87694ea683ec03cc":"bfe6684af4c238da918bfe7f0d17578b"}

CTR_DRBG NIST Validation (AES-256 use df,False,128,128,128,128) #5
ctr_drbg_validate_nopr:"d004a0893bf326d50ee52e04cb3e64409f2044e9af7805dd092d04162d088385b1f243000914c62ca3ad9f8927e81":"c36004075f5d0781e40f8e06ecb15f71aeb9eac218c19c7fd78a0ed2d1790c9497a93bea5f0a6beb5e82d9b1f73e9fb2c18511fee2455dbbe61d6b01bf2024a":"7d33ada131650ca506d2c194444ed202d568544ca7a75b6e057a0b474ca10a791d60238677f53150fe7074061eac683356f7e7632e5f03f1cd28":"6754366be264deb9e94f39e92ace3892e2489d5d7e596ddc3be0a488fd6":"1c2979ff03e3c771603293473e347ab4"}

CTR_DRBG NIST Validation (AES-256 use df,False,128,128,128,128) #6
ctr_drbg_validate_nopr:"9a8c79b48ada4091837f260a141c9ee0b6826b08b5c6e5f85d7ed765eac5751dd4de7e7ff85b3a36ee0dce2bc9e":"c4d68b76dc0e785823be2da9339de090132f127122e1a63ebe92e36d740ca5e5564c367bff4a52bc701c60c86f0bcb7cd1994c14956a259963207184f01246":"04c7060f36e9da5f9827c716282ef8578e8d78c0c8a8eac272446d664e667c8e":"14d875874d2e3d2e147a5f78c9c997607ecf6eb6ea65a184138eb5736b16f156":"8cbdbaf9dca230d8d39b829968aa5f5d3e3106d8bb69327ab1b6201b78a7b8":"faa14609526546927a4fa54073e46"}

CTR_DRBG NIST Validation (AES-256 use df,False,128,128,128,128) #7
ctr_drbg_validate_nopr:"a0736a5a8b00a394625d8985b05e3a9f277ca193b253e0783359a84c081612c49e469c7756df09995f5e8e16d24381":"ea70486f1a76086b6bc37e19ac7444466ea87e5d2820b2a96bab97b5c45dcb0a50ced885121b60a5074444b1555d966f54f6ed3de131e15281b30e":"47f3655dd5c42454fa6e8330aacba49f27c76b9a05e767d7bfa1c50lacab":"9a5d07a3e399cc51d13606965cf9b9779e839b19d6f21d2e3c0d919f5a7":"150b028b64a988fc1ffdc9e6e664e46f4fcd58385e976c89923638e9cb33022206d681569b174a0dd0d3e0d50af05a46"}

CTR_DRBG NIST Validation (AES-256 use df,False,128,128,128,128) #8
ctr_drbg_validate_nopr:"d445a3d932e8577751ce193f11952b1d3a146d0b8c0dbd7530080d62d5a48fa4ceff2dd097ce749973073e33edfda350af992dbd303d558460c06ada9115066bb75ace66d56c82ed6d0171e3e23335ce5c2b6891e58af8899ed0204316479f49c46e73090ce5714cb3d35c166":"79343694f7950f5ca51994236498b5353535ef11eb4393db1c76c76a8afa70a":"c22810de9987b228c19680eb044ada2a2008301248a6015f53884966d068a2149b":"7747d68ca88bca34931f1fecedf8c9727dd561c1d6200ad1f7b67eb4fcb72b2d6":"f5c40abbe3976b06ab52000e827a68"}

CTR_DRBG NIST Validation (AES-256 use df,False,128,128,128,128) #9
ctr_drbg_validate_nopr:"27288607697e62a77c60a401752d3c64e0a051724aa3276a146b4b351017ee79c7e8257398c12fc11929c7e4ece45fd5c3":"d6632cdcfdf40f0f1377e3811266d927a57b37c5f4e9763e5a1545056ad197133ed875ff77928284d1cb3b3acc47971d3626615a45b9a169b9af426e":"62349efbaca477d0e92727c676abf7f8040cf7460027d3eefbf9a9b9e0d0bdc":"381cf0efbd6afa16af3f11ce05432088584f3520130e33617564ec7a4a8ec7":"6974043362f834df793de07ceed6501599163d50489441005af9d09ab4b4f":"df789474ec599e02d985195ca3b4863"}

CTR_DRBG NIST Validation (AES-256 use df,False,128,128,128,128) #10
ctr_drbg_validate_nopr:"2b655b66e410e8e255b2dbf8066e3e35a3c73a3aa7042df54fa750a74e097b071f1c81d6eed96523dd4fb767be8c79":"b03a6b3e8e23f5336b9791217cd3d3f1e1211329c948473473ba77dca3e067038157352784a1ade786f16831944558defffb9a00900ca55f97e7c26126b":"592555e5cd222136e945bd6144747d76d5b2f394b"
CTR_DRBG NIST Validation (AES-256 use df,False,256,128,256,256) #11
ctr_drbg_validate_nopr:"
8756ee2c5e381c7c1dc530748b76a274ee6f583090e0555d5210e2356feb2974af815119a04e
9b481cd3b557a197b8e":"19705743eaaaa0a8e8890a0faa2e0df37c820d556ce7a45f04d76276f9f9ce2c7e133258ae6db
a9cdf7745d01745763d18cd1a1fe29eb06ed28060f0f9b636c":"2ba4a26b82e9a55746af97b735e2f2dbac3bf31fd
5bced212cfe4d8d690a":"e86504f10317beab34af3b9e4b310be9fbd81a42054f358eac0d8ccca6b6eff";
"19ffd856a6675268ce464ca6fd8a8fd0912143e552668528d1d484c9a54592cfe";
"f347fd58af2999503e258be77591701"

CTR_DRBG NIST Validation (AES-256,use df,False,256,128,256,256) #12
ctr_drbg_validate_nopr:"
5ff8ee57e5035d54cba51a7e4c7542fd775c009e0a7371186edc4188f78fcbde946b8f8e19
a50fd81691de82dfc3f:"
"i9993592aab2b31d92ac72736da013a588e17bdf02cf6de79d79f8296601633d04ceb005110f2
6e6e10004ef33194858def8b5355141c73ca0ae48fc4d2f62e2d;""b1bc21a316db488093e3bcf7917d614da9ca790090cd8b
b39d48d645457c3e1fe6f;""7e42d5439d816b08edf5c571d548699730cafada33b6504ad101572a42b299b8b
"e9e3cfe180f72ba2c1a45d0a94b822943612143e0bd64398796b0d284ae1a6f6c5f;""d0c83a4b3f517648b441d11ddcb808c"

CTR_DRBG NIST Validation (AES-256,use df,False,256,128,256,256) #13
ctr_drbg_validate_nopr:"
898064243e44f67f69f18e531c;""b8dbbe3036eeeb5657b1f0766354da8e897bd2b793b3530270cc0a20a8169a2e437b30a3635e3
b6c6cb310f139257f58da030c8ab616418e09194a4e613130a60c;""37572248df85e6eae5ce95db4e3f6431e908f6852
0a4a7b64ed9f473c41e45c;""28beda0e0346b447d32208c6b4c42dcd567afce1e483f8a495ea828c8e55a5;""7a0fffa541d723e16340eeb960b1b9e9aae912477e0ebebfae30f81a3u8bd5c1;""611c96f65193dbe3d96bced276186a"

CTR_DRBG NIST Validation (AES-256,use df,False,256,128,256,256) #14
ctr_drbg_validate_nopr:"
50de72903b9db99764123f3aa0c72e141d1ab15c46a34c04f25324ba1d937b8ef104676116cf
2978c2a680ac5570c62d;""5c9954fd0134ee23bf2d5734052e3c9370f7b9d75c075f8e33b12e3997ee2e8db848467a
fd7cd9a9e7ec06a0f3f9b32ae8759570e89194a4e613130a60c;""d5dce4c9fc7117cfbd3eadd558a565f5df55d245a58b22a
d1666ee05131e3f349e;""ea3114e9e26a19f53b207a0a54cd363a6d053fe0a827f925560a858017a342;""53686f69b45a5afa692888811ac15c7fbadb3e189d4e62b709f8f75198a75;""9bf0d503e0345e5640a97fed5f05a6
GCM NIST Validation (AES-192,128,0,0,128,0,0) #0
gcm_decrypt_and_verify:"
806766a4d2b6507c4113bc0e46eebe120eac9d948c24dc7f;""4f801c772395c4519ec83080c8a5a4;""128:8fa16452b132beb6c6aa521e92cb3b0ea:AFAIL:0
GCM NIST Validation (AES-192,128,0,0,128,0,0) #1
gcm_decrypt_and_verify:"
0ca2bdc2dde4ae137509761a386eca436b9b9212b141f28f5;""335ca01a07081f3e4e605e
be5f2a3778e;""128:d7f475dfc92a75bce8521e12b2e8b86;""FAIL:0
GCM NIST Validation (AES-192,128,0,0,128,0,0) #2
gcm_decrypt_and_verify:"
eef490a02cecb32472e1654184340cc7433c344d981c062d;""d9172c3344d37ff93d2dcb
2170ea5d01;""128:017fefe05260a496654896d4703db3888;""FAIL:0
GCM NIST Validation (AES-192,128,0,0,128,0,0) #3
gcm_decrypt_and_verify:"
fe0c3490f0fda23c56c6e6e1740d06f85e0afec776723f;""f47e915163afa3df76ec15b9d
69f53907;""120:14e1a057a2e7fbd2208e9c25daba1:FAIL:0
GCM NIST Validation (AES-192,128,0,0,128,0,0) #4
gcm_decrypt_and_verify:"
4356b3b1f308d53753509945afe52689849f953f01096de;""a35b397b34a14a8e24d05a
GCM NIST Validation (AES-192,128,0,0,120) #2
gcm_decrypt_and_verify:"e28989373c575c8bb7444413884deaefe8eaf326be8849e42":""":169a449ccb3eb29805b15304d603b132":"":120:3a807251f3d6242849a69972b14f6d":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,112) #0
gcm_decrypt_and_verify:"75683c7df0442e10b5368fc6b481f0b8f8d95aae90487e":""":538641f7d1cc5c68715971ce607da73":"":120:70d6ffe417adc3397706d73b95":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,112) #1
gcm_decrypt_and_verify:"0724eef317997ce77bb659446fcb5a557490f40597341c7":""":0d8be7b032d83c676820b2ef5c2cc8":"":112:7da181563b26c7a8efeb29e71cc69":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,104) #0
gcm_decrypt_and_verify:"583c328daedc82ace5c83a0c263de194a473aa4700fe76":""":55e10d5e9b438b0250d30f211b16f6a":"":104:95c0a4e9e80f6a4ace500f7":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,104) #1
gcm_decrypt_and_verify:"b40857e7e6f26050f1e9a6cbeb05e15a0b0a7c2055634ad7":""":e25f162a4295d7d24de75a673172346":"":104:89ea4d1f34ed716b322ea7f6f":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,104) #2
gcm_decrypt_and_verify:"627008956e31f9a497fb120b438a2a043e23b1b38dc6b10":""":08ea464baac54469b0498419d83820e6":"":104:ab06fa8d380fe2eda38e619e1":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,96) #0
gcm_decrypt_and_verify:"8c386d6d7d72c2fd46b8571d8685b35741e87a3ed4a46e9db":""":766996bf67ace9e6a22d7f802455d4ef":"":96:9a641be173dc3557ea015372":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,96) #1
gcm_decrypt_and_verify:"711bc5aa6b94fa3287fad0167ac1a9ef5e8e01c16a79e95a":""":75cdb8b83017f3dc5ac8733016ab47c7":"":96:81e3a558023d8e0b2204bc3":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,96) #2
gcm_decrypt_and_verify:"c746208284020bdf3f7a5353668505dc1550a31debec59a":""":cfbefe265583ab3a2285e8080141ba48":"":96:355a43bcebb77f72b6cd27ea":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,64) #0
gcm_decrypt_and_verify:"1eb53aa548b41fbd85c657ebdebda0c7e525a6432bc012":""":37ffe64d4b2d9ce822d17d1ad3076d82b":"":64:43b8e037084b3f2d":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,64) #1
gcm_decrypt_and_verify:"50d077575f6db91024a8e564db83324539e9b7add7bb98e4":"":118d0283294d048127c
GCM NIST Validation (AES-192,128,0,0,64) #2
gcm_decrypt_and_verify:"d9ddca08073050256d6191ed7893d7d5c5a3e9f012f4842f";":";"b78d518b641a9e031a00b10fb178327";";"f401d546e8b739ff";":0

GCM NIST Validation (AES-192,128,0,0,32) #0
gcm_decrypt_and_verify:"6ed8d8afe4dc38724c2747c47b719205518496dd7951d";";"14eb280288740d464e3b8f296c642da";";"39e64d7a";":0

GCM NIST Validation (AES-192,128,0,0,32) #1
gcm_decrypt_and_verify:"80aaceb74f216b09ac6f6689869e7f348f805d52404d";";"f54bf4aac8fb631c8b6ff5e96465fae6";";"1ec1c1a1";":0

GCM NIST Validation (AES-192,128,0,0,32) #2
gcm_decrypt_and_verify:"23b76efdf0d8501885ab7d43a7daced91edd9cde1e0108";";"75532d158e582e6c477bb41e727d4171e";";"76a0e017";"FAIL";0

GCM NIST Validation (AES-192,128,0,0,128) #0
gcm_decrypt_and_verify:"944c504553da3ef7f77a763a13fa3d4ebb9c1198abff32326";";"1afe962bc46e36099165552dd6b329ac6";";"b2920d9b0325a87e8edda8db560b6c287e44df79c6f1edba3b2ec95e34629638ebc86584f05a303603065e63323523f6cc5b605679d1722cdd565189d268df8db86edffda4839c4a04982e8314da78e89ff8ad9c0fcee86332906bf782f20a0cbadb282008c6d09df2b9ebe2c9207bb49268b88e8936e2398f8b1ae03";";"51e1f19a7deac5e9c9a9d909963c7e";"FAIL";0

GCM NIST Validation (AES-192,128,0,0,128) #1
gcm_decrypt_and_verify:"5a32ebc7a233083ced3d2b85c6c5ca9845a7c5aa99";";"9afe882e418ec9af205e5eb90ec13d1212";"61f8f888bc22803707fe8901af865bc7d3083f413cc392a898e4ebed514894dd0f67d36439024d8f2e69cc81540347f275169f69a97615f32d10a1353213a756cb84bd3613f28261ef3901eat03ca38ff8b27467ed0ca4e0049219e87d2e92c38f78ffac242391f838a248f608bb2b56b31bbb453d1098e99d07ea1b";";"fcbb932db0128df78a71971c52838";"FAIL";0

GCM NIST Validation (AES-192,128,0,0,128) #2
gcm_decrypt_and_verify:"9bf22885e7f13bce63bb0a2ca90c20e5c8600105ef858d";";"99dec21f4781284722b507
GCM NIST Validation (AES-192,128,0,1024,104) #0
gcm_decrypt_and_verify:"5a27d7182f1c5cbedc52a745b391bc77bd1afa8b12318f81579":"95661051912fa54023aef46ef9380a5":"2b7cec5ea81300ed23501493301f13681e8a50e37eaaddb45f27add6bedeb09e7edcc67562e4ac889948726dc8ec80e2b3a389d34323ve123f7f4c5db58e920d286db8604f23ab0e3b36e359b55fe3725107e9d67a491cda1580717bf664c28799e9ab67922da9194774732fd84197070a86388d1c9ea5e3979b7":"133e8f42b58f45f0a456f83a13e":"FAIL":0

GCM NIST Validation (AES-192,128,0,1024,104) #1
gcm_decrypt_and_verify:"5a27d7182f1c5cbedc52a745b391bc77bd1afa8b12318f81579":"95661051912fa54023aef46ef9380a5":"2b7cec5ea81300ed23501493301f13681e8a50e37eaaddb45f27add6bedeb09e7edcc67562e4ac889948726dc8ec80e2b3a389d34323ve123f7f4c5db58e920d286db8604f23ab0e3b36e359b55fe3725107e9d67a491cda1580717bf664c28799e9ab67922da9194774732fd84197070a86388d1c9ea5e3979b7":"133e8f42b58f45f0a456f83a13e":"FAIL":0

GCM NIST Validation (AES-192,128,0,1024,104) #2
gcm_decrypt_and_verify:"5a27d7182f1c5cbedc52a745b391bc77bd1afa8b12318f81579":"95661051912fa54023aef46ef9380a5":"2b7cec5ea81300ed23501493301f13681e8a50e37eaaddb45f27add6bedeb09e7edcc67562e4ac889948726dc8ec80e2b3a389d34323ve123f7f4c5db58e920d286db8604f23ab0e3b36e359b55fe3725107e9d67a491cda1580717bf664c28799e9ab67922da9194774732fd84197070a86388d1c9ea5e3979b7":"133e8f42b58f45f0a456f83a13e":"FAIL":0
GCM NIST Validation (AES-192,128,0,1024,96) #0

gcm_decrypt_and_verify: "de7d4f4e007c997b9aad6a6955195f14e609999ed9818707": "74d209e414965fe969636c1c64939ba3a": "da3c6c6b414a1e070098fcf9199371192a1fb2eae202079015e5f35862e6d1b98f17f1d291a9085ad2789d10115a980de9d961c093941502268adb70537ad97836e6c7d5157c93f95b9a8474c3d7fc1fcc91165cdf8d9d96ec70d640086d564b68ebead0d30ebdad66ded556592b8de0baf04bc30ddef2e3a9eb34ab": "24483a57c02826a709b7d10a": "FAIL": 0

GCM NIST Validation (AES-192,128,0,1024,96) #1

gcm_decrypt_and_verify: "1dfa5ff20046c775b5e678c2bd9775066ae766345b7befc3": "d249409b869b89b9fcb67767979ca8cd": "e35d34478b228bc903eaa24236397e603cc077967d7c0b62e95bce11d899be0af1d35469f89b2a7047300c1f51319d15649e9bee014d18ab605a12e1e4e35e4814318b8599cb25abf0888888252de123516c79d8a8d6a23c0b038fd1d5c6c19617f08d6fb01c966ed593149a1c6295435e9846e4f03a511d1ea7e82c11f0": "23012503febbf262dc2d87dc": "FAIL": 0

GCM NIST Validation (AES-192,128,0,1024,96) #2

gcm_decrypt_and_verify: "2df3ee3a648c48fdd0d37bab443228c7d873c984529dbf4": "dc6aeb41415c115d66443fb7aadcf8f": "eaf6007faba46f13d51b1df459e56dd9d7b48b93ea7395fe5424f762ba49080de44997a7567d7855288fe6c17bf4aeb7d6f43d4646fe5ec6401f3028247ae3e62d3b3ff9c0df5333a64d36505f42eaa8899b96a92ec01934d4b59556feb90558efdb81f556e0135345bf3e3e4199bfc3dce42523e7d24abe04cd6b76": "e8e80b6fe5c4a55e7964f455": "FAIL": 0

GCM NIST Validation (AES-192,128,0,1024,64) #0

gcm_decrypt_and_verify: "ce0787f66e24a1444c35dcd38195197530aa20f1f6f3b": "55300431b1eeac0375681d7821e1eb7a": "84a699a3a4a1e5970616ef958ec3c2b1b592e9236dd9b8c6d7e05f1e709937b484ec34a4b88dd99708d1332ec3335c6f819d5e7b82888e49fa5d54147d36c94868630aadfe88d855537119db1d57d0402f562e2197ece7b4b5f996d6b1c664a75174ec880a00b0f2a56e35d17b679c550921961505afabf4bf6d6cf04dc59d6": "742641631316ac": "FAIL": 0

GCM NIST Validation (AES-192,128,0,1024,64) #1

gcm_decrypt_and_verify: "3a15541b5857ad668dc9899b2e198d2416e83bac132824a46": "89bf8b0ceaf65f9616eeeb9b314d7c333": "4d2843f349eee1a31ac5214794570051758beb88bebaeb90997ea4471dafa96c60a532bedc1a18ca82b2f541de3b87ede60999e994ace39f51f8a0d2de6d620e9ae04549326da4493ae90364a1b790b6b71debec0f454bb0ce7e98ae56a1accecf8c91614d1616db30f88223d8c877fbf55d8253efe034fd66f1791eo303c52": "8f48787780deaff10e": "FAIL": 0

GCM NIST Validation (AES-192,128,0,1024,64) #2

gcm_decrypt_and_verify: "b161dd691e136ee2ace0b97993a4683a1734275188fe559": "40661108061c904ed1e866d4f231d123c": "153c075edc184f8ada0fca25caee872020316ef8f43c638b148ca32c51d091ae0394223d60b51c1d2ee601914120e56de2a1289a4f70db8ec4f42e5087d7e93e4a326a33e215a2e8cde270c5b54b66627f5785635a2986f8e76ab41e628e12a42ab4d5f17954665c3e4a3a346739f20393fc570e0ce79d2e32722c3f8c3c7730533": "4e77227b42f9a7d": "FAIL": 0

GCM NIST Validation (AES-192,128,0,1024,64) #3

gcm_decrypt_and_verify: "b161dd691e136ee2ace0b97993a4683a1734275188fe559": "40661108061c904ed1e866d4f231d123c": "153c075edc184f8ada0fca25caee872020316ef8f43c638b148ca32c51d091ae0394223d60b51c1d2ee601914120e56de2a1289a4f70db8ec4f42e5087d7e93e4a326a33e215a2e8cde270c5b54b66627f5785635a2986f8e76ab41e628e12a42ab4d5f17954665c3e4a3a346739f20393fc570e0ce79d2e32722c3f8c3c7730533": "4e77227b42f9a7d": "FAIL": 0
GCM NIST Validation (AES-128,128,0,1024,32) #0
gcm_decrypt_and_verify:"e7e157a7d7fe4920c3e2d3540e6b852432e91f40f592b1a4":"c3444b48457b93e309df8e1a0e1e6e9a3":"ce8d8775047b54a36cc0d9e9bfc0db5ac5d610d6c3fffe120ad7c83a939bb7b623313ec1101a189b3433a7f4e4d880a06399d258117e398d982f55a11b0f4f6ee695badc897e8ec34649e1c256ee6c6ee336e367927cc5124bc2962713a44cb5d435ae3c1143796d3037fa1d659e5dad7ebf3e8c8dbdb5b619113d7ce8e483":"ff355f10":"0"

GCM NIST Validation (AES-128,128,0,1024,32) #1
gcm_decrypt_and_verify:"5f659ed236ba60494a9b1ee2eb40edecf3f25a2baec5eb5":"a8e33b7e8d888d30deb961e90c4e951":"6de616bb000447b14b67590015183dd753c611499c0e665d606a89ef04b00dd3603f61851582e901ef5d0cd3f344c29c70e3aaca2baa83e9f3284c6e4014906d389b027e89ca60d1010f06ef8cd9e555b2483d06552dbde53c4324c55085cd99e83edec36673445bf626e933c15b6af0a82e1cbace7420b0b6f7e1a374877d":"a28e9ce7":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,32) #2
gcm_decrypt_and_verify:"a73f138b1e2998ba4ac0ab2ae27d743543b1017ccbd1b240":"ac8e30b2899b108b068d35e9d68a49e9b63574f":"0"
GCM NIST Validation (AES-128,122,104,0,120) #1

gcm_decrypt_and_verify:"c5afa1616459b12e2fa6376f64f18dd557e4df3255b47f24":"5c772cdef19571cd51d71fc166
d3aa808292bca4eae36aba09e46164651ab2d4ae60d4f3a19c3757a93960e7f9d10b9a6c9d9f88dbd259b3706d6c78c8eb96
dba763a8756ef7e6f6ab7ea9bad3c80743b3e4c78d50d4c74b3ee16806ed57549a96f7741904eac16769c39e943eb4e4c25f2af6d6e89472043de2b03e9de2eae2":"151fd3ba32f5bde72a6c6291b1fc63ea":"":120:"

GCM NIST Validation (AES-128,122,104,0,120) #2
gcm_decrypt_and_verify:"febd4ff0fedd9f16bcb62630859d41b8eff18343478d8fa":"de971c8f65e6ce2ea4130af4db38fc657c085e19c766f5f058d0bd83d64ec22471c2fa36ebe787295958a7888889e90616760a11a0f005e42fe5b03e66f49626b18eaedee979d33d1b06e2038b10a189395e2b2aca6ce93f3f7cf2ad658fbb633d7f41a2003ddd5f5dda3b4ed7424845c11bab4396bb987f08fe09f8":"743699d3757981e82a3d21c7cd7991c8":"":120:"

GCM NIST Validation (AES-128,122,104,0,120) #3
gcm_decrypt_and_verify:"5e80f87fa2156c62df7fe2ad16c4f890de5ee586a8a684f9e":"e828d7016a990dd64f3acdd329fc0054d68465a98cfa2f3606cd0fbeb977328979bad3ca8094322a33a43155baed02d8e13a2a2fbbfd259d80066c6f4181a74b2e806f2381505b263dc906fbc4910c6ec878ab595b5e4f8f3e2ed91b2b8dbadfd4659a93b06a1a67cb60e1cdbf809d323f9b30f61a57105544b6128aaf875b8e9f795ff57bceca":"

GCM NIST Validation (AES-128,122,104,0,120) #4
gcm_decrypt_and_verify:"c874b427b7181b0c90887814c36f24282719432fd5c945":"

GCM NIST Validation (AES-128,122,104,0,120) #5
gcm_decrypt_and_verify:"d8a7b99e53f5e5b197364d4516caee4b928de50e571315e3":"d0db0ae5e14bf03729125f3137d4854b5d4c8ced2d64f664d6a174027d4ad4e57a80f107eb202aeadbf0f63094ae97936c3ae91ee8bfc0f6074d8111f6aa6607633f92e4be3c3fcb644418101db80a9225e83e60f0cf7af77177149a13f8c5227cd92855241e11ee363062a93a76ac282b747523b306cd8235d81c2":"4b1b2e6071534098e23eb6459f684d6f":"

GCM NIST Validation (AES-128,122,104,0,120) #6
gcm_decrypt_and_verify:"c874b427b7181b0c90887814c36f24282719432fd5c945":"bdd90190d587a564af022f06c88d1a68735b6f18f04113dfdec246027aa02f71b1833366bf713d247a173d9e095dae69badb0ab69712302875406f14320151fd3b90a36df35cc856636b1a6f98afcc797cb5295967e2e9b7ec6d2b733705be852722fa740ed81593aaf460e7d7de90ca6ab6c6173844216c064b16ea3696":"4b8dda046a5b7c46abec2a2f9bcaf8":"

GCM NIST Validation (AES-128,122,104,0,120) #7
gcm_decrypt_and_verify:"c874b427b7181b0c90887814c36f24282719432fd5c945":"f0626cc07ff2ed1a7570386a4110fc1":"FAIL":0
GCM NIST Validation (AES-192,128,256,0,64) #0
gcm_decrypt_and_verify:"2e7f7729e7b8c006e9ac177a277f1728df997b2607597780f80a10":"FAIL":0

GCM NIST Validation (AES-192,128,256,0,64) #1
gcm_decrypt_and_verify:"0685000e8f4f8d4f4d4f903535080c1074653b397c397c9709c8":"FAIL":0

GCM NIST Validation (AES-192,128,256,0,96) #0
gcm_decrypt_and_verify:"01b0a815df6da3e32851e1fb":"FAIL":0

GCM NIST Validation (AES-192,128,256,0,96) #1
gcm_decrypt_and_verify:"0685000e8f4f8d4f4d4f903535080c1074653b397c397c9709c8":"FAIL":0

GCM NIST Validation (AES-192,128,256,0,96) #2
gcm_decrypt_and_verify:"0685000e8f4f8d4f4d4f903535080c1074653b397c397c9709c8":"FAIL":0

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GCM NIST Validation (AES-192,128,1024,0,64) #1
gcm_decrypt_and_verify:"d50d4c7d442d8a92d0489a96e89750ddda66bfe47ca7713ce":"b36b4ca1fd47b0d10652824bd5b7b603ece1c1f64720cecf7d43edde8af1b9737f6b1b0882566e04da50136f279a44efc57f5ff4c8465e8a850f0aeadc17e02709c9ba818d9a272709e5f565dd5612a5c457700939668a00041a1c523d66eae3f72093d85ecbf8d9d5f5d2b541f6b605dcefe81e9ff45a5c0e191cc0b92ac56d":"41b37c04ab8a80f5a8d9d82a3a444772":"":"4e54d2408289e6ef":"FAIL":0

GCM NIST Validation (AES-192,128,1024,0,64) #2
gcm_decrypt_and_verify:"38f3ec3ec775dac76ae484d5b6ca61c6957ceabeaf4606ca":"94726b8ecfe482a02fd7beff09971f382572cc8ee9f096e50baced69f4a48f93b32ec379a973a2c3aa3b49f60f7e9eef45aefdfdd15b1ada1d1557f068e81226af503934eb96564d14c03f0f351974e8a54fbf04f0f4717f9727e4b600072bf98f9770326562e41b14cad784a2ed1b4ae1d43623ec451aec55f6f84":"9af53c6f8917a4992b6f56c342382088a":"":"6f6f3444d43b0d20":"FAIL":0

GCM NIST Validation (AES-192,128,1024,0,64,0,64)
gcm_decrypt_and_verify:"6dbae06151ef66905d7af5d0811e0dd7e4342d3874":":b7f9206995be973711855ee832e2b40c41ab2d1a40d926383c951b414d5c51c74d2d2e7b61989f1d94766c659e7619f2963a51b88fac644c6be5632c5f2d48c6edba4028a92de12ed91415077e94ce7af60f117052deaa8916de6e0a1d92e1c03927e93012d0badc29bbbe50ce53f7a817334ae94ac86fd5904e9394c2895a7e9563":"623df5a0922d1e883eb2deb2e0e5eb01":"":"14f69d07":"6414da9be693e7ebb32480a783c5429e57fefe4abb63636beb3cb07ebc608ad5585896e9b5d85e2a43f71598b52fc07fc9fa6194ea0cd8ed78404f251639069e5ca3133c6fb94f1651735ff4f81f66e22bc3e40bf78f8188e90176447fe27fa7dd2bac3d2b7edccac5f7605903ac428b0b6a6e6a040d2d4914924":"FAIL":0

GCM NIST Validation (AES-128,128,1024,0,64) #1
gcm_decrypt_and_verify:"8901bec4d3ac4071d8c307c20e093221e05fed71ada280f":":7c447e700db7367260df3a4050e612ef062eb0c8aabf4e345858800be8c26f22eb5213767b57714337383e99f70af6173c9ff71de99845dace16df0d66f1215c0aal191abf43293db6663d2588589de7c3329f57e12101586f0b1880840ed5b877043ca06039768c77ff8687e5cfc2f0d13a0b8da43844e568f6e3b9e2b19":"9265abe966cb838387d7f9302938f49d":":"6f6c338b":"FAIL":0

GCM NIST Validation (AES-128,128,1024,0,64,0,64,0,64)
gcm_decrypt_and_verify:"2c57eb763788615d43b083e003cfab54a333e88ae883c9c83705f9827":":9fe7d202122773ba4a163850bab2909b7bfe8257606a940c290a0b40c0d66b3685e081ae07d3535b34275857d85b8479ef4ca7a58f6f60e9d9e68687807009f5dc2624493d57bcafc7aed18316e6c357392d2a7ab0fe8aa632e4f12442029e333939b49b2828162224f2f048be4640486f2ab11a19958c2949e32e":"9b3781165e7ff113ecd18dd3d2fd366":":"3f2f2d4e":"FAIL":0

GCM NIST Validation (AES-128,128,1024,0,64,0,64,0,64,0,64)
gcm_decrypt_and_verify:"307d3a594e5f4673bea2f977835670aca4f3d45e9c376ce":":d7385a7b0dcb76e1e242fa547c473470bce7cc76e3fa3b700fe0a58638eac31a0d23c8493f6ed42e828f0f32e42f444dd100e0f8ee65355ebbd8d277fdbb7eddab68a031c0dd90aeb6494ede92aaeeaf0027d59ef4eb39b1f34b15ce86b592eef171b1773b030c8e747790b0e6ac9e0f6c61ca5f9429bd17ct067f288e87d1":":0ba0d33a509b4d32432926f2753743e73c":"aa9f40559993cc2eae36d63dd8a31f1238b5282cb2e2bb8c2ff2c0a002007f20e37719b805e7f46f846f06ceb780606c9209d327f9bb5c7e22c29ae81f88f808755609a1732ff8c0b66606452b970c799979b85889404fd907c4668af0bcec11baf167175f452523494a244da60b234868c8630850f0d2b0e4a984af5d56c0a71d8":":80d927aa002ac2a4727f5b032c29673e6":":09b2262759897f4bf6dd24a891178eaba040df79322a2a5a60b75f56ca5bad1d17abe40c6d963913bb72ca1af1f5839003e3233b3b2d404833b959081778b59af57c5c6b631825bc0797e7ccc7ee199f5d41c0264fd22f71893bf8821c1510fe8057e46880f8e2ad8f8dec60b300fd660a582f7eb7534e522caad4e4ac7":0
GCM NIST Validation (AES-128,128,1024,1024,128) #1
gcm_decrypt_and_verify:"7b882a2df81dfdb9275fbb05d012f32417e8ff60dd07457e938":"0aae7213da7b9343d6cf2a69 1b2d33112a22de0ce3684d74e79f94f84ada8e038d46a9ec18c3a04ac9c2ab7b3e2tc22051052958765b96c450af8 4dede3b7b57b2e1f663652f88db95590257a2e1c4a7ae807e80cb566b88a036052d2f2a29af0550df031e3547ca7e8f41c 5ee8d642e5fe8f9392f52fede3e542797fe06":"5c6d43e1889388fb21e61d8cd7e42d2e5":"5b7a1173134ce004037d7c01f3c3 86d0555e889942d77fc6863f1ce9566e98c1942289090cedb25df8749750703475514287cef27f2aba4f81dbe 0769b03dca6610995d67cb80052cb2e5914eb4d3e43f58614f849343146ed6a2b2b2bba7d849dfafe64ecc12edc8af bff28d9d23c2b33b8c5b09a4df0d6e5ce06e06":"0943bb85aade47e71454009c0ee338":"FAIL":0
GCM NIST Validation (AES-192,128,1024,1024,128) #2
gcm_decrypt_and_verify:"e67546470937f59d9af762abed6f20bce15ff8e39b95407":"afae92bd56e426c095d766337
Open Source Used In HyperFlex HX Data Platform 5.0(2a)
GCM NIST Validation (AES-192,128,0,0,120) #2
gcm_decrypt_and_verify:"f12890b0a8819fa5a8e0e487f7f064af42fa6d5519d009f":"":"c937615675738f4b3227c799833d1e61":":120:"88300bd65b12dcb341f1f6d8a15584":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,112) #0
gcm_decrypt_and_verify:"51878f3630298a81297f4a21514fee637faa3815d4f26fae":":"1f939226feab012dabfc2193637d15b":":112:"eed5fcb7607c038b354746d91c5b":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,112) #1
gcm_decrypt_and_verify:"ae596e74840a600556a6f97b13b89e38f67c152f1a1b930":":"e2076e1050070d468659885ea77e88d0":":112:"b4586bd4db6b899648f2333ee0":":0

GCM NIST Validation (AES-192,128,0,0,104) #0
gcm_decrypt_and_verify:"5685b12a6617d554c36b62a5f8ff2239cb3fbb1d2c40e14":":"6c31194df990881fa5b1dd33b45a92":":104:"9431593c376c9f8052bf10747":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,104) #1
gcm_decrypt_and_verify:"036ae037410dae9f0741608516d03b855e9c185df8c54a":":"73599275f8237f14c4a52b283c0775d":":104:"6f7249d25cf9f273434c4720275":":0

GCM NIST Validation (AES-192,128,0,0,104) #2
gcm_decrypt_and_verify:"ac144f39ebd6124bad85e9c7fb4f75bfff389ece2e6085d83":":"d0871bfc3693245be478e6a257c79efb":":104:"5a99d59631d012f58b7b95cdd":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,96) #0
gcm_decrypt_and_verify:"a8a541ff11a1b8548e832d9e015e5eccc94b87dadc156065":":"c72bb006b242c7ceded863eba56c7587":":96:"ea2528e7439be2ed0a0d6b2a":":0

GCM NIST Validation (AES-192,128,0,0,96) #1
gcm_decrypt_and_verify:"30dd8f400335e9c688e13cc0b1007bd21736a6d395d152e2":":"28899601fa95f532b030f11bbee87011":":96:"35625638589b7f7eccdb0222":":0

GCM NIST Validation (AES-192,128,0,0,96) #2
gcm_decrypt_and_verify:"cb8f672b04d706d7d12d5d6830ff5d2e069569bea050ce":":"375d4134e8649367f4db9b07aa8594":":96:"70610bf329683e15ecfc8c79f":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,64) #0
gcm_decrypt_and_verify:"b71e5b1c6db6e36ecd89a4958675a1166c107491ff1f44":":"9f502f5ac90f5f5616d1f1a37387d":":64:"a4b5138122e1209d":"FAIL":0

GCM NIST Validation (AES-192,128,0,0,64) #1
gcm_decrypt_and_verify:"5b9d1d1fb2303b6684e8363793bdc0e5ada8599cb209e24":":"2ee96384dd29f8a4c4a6102549af026ab":":64:"3b33a10189338c3b":"FAIL":0
GCM NIST Validation (AES-192,128,0,0,64) #2
gcm_decrypt_and_verify:a35ae271f70ebac8b2173b3f7b921f5abcad1712a1cf5d5db":"89d7f354564d8185b5f7727626850a":64:"813df298a760130c":0

GCM NIST Validation (AES-128,128,0,0,32) #0
gcm_decrypt_and_verify:9bddd0cb826d5d28c2ab97775d50a155887c8227c53ed4c4f":"daff13501a47ee73e0197d8b774ee399":32:"af6108c0":0

GCM NIST Validation (AES-128,128,0,32) #1
gcm_decrypt_and_verify:81b4d5ee4e1cbee1d8966fb3946409e6e64319a4b832311f4":"bc2f93200b662eaa29ebc9cf7f9f04a":32:"a47cdaa":0

GCM NIST Validation (AES-128,128,0,32) #2
gcm_decrypt_and_verify:58136272d6568dfef5af08184cf561fe455e989b98841fe0":817199254a912880405c9729d75ed391":32:"d81d9b4":0

GCM NIST Validation (AES-192,128,0,1024,128) #0
gcm_decrypt_and_verify:94f160e23252d233030ebe4e1591033c2014f01ace58e5b24":80a1b99750980bf2be84a17032fc2721":"066fd980cf043a3732433ee5f65c82a8e13c958ad3cfa343014a842f63806770f127e2041efb42e31506e833909ad5762de2f806df24cece4ebbb8949721a017ef99e51e44af0e325ab053f9824514b5941ab1e595f8bb57ad518ed34d72992a19251d91e34ad1a22326e493d1ff2da7bc271e96ad3ab6603c2db711293":128:dd53c7f7a946280660c4455f566a28":"FAIL":0

GCM NIST Validation (AES-192,128,0,1024,128) #1
gcm_decrypt_and_verify:47858464f7e0524a78f3eb137fd433e1808af64549af6918":5334476a5fa3fa50dccc4b12f8ace0051":e70f82d163361aca5a5e9a08f7e4798945533ba296f9b7e4a192a4a28a93d6bb5acece3415cf6ff2b0855560b5c31983d139954e1c03a464739f1e5bd9824e371cf20b8984bb97d5f40b336f5e96fd3d272957f547be153b053b000d7d08c5eb5d8b6d246e74f6caaa6b7f3a0417730ce72b911867f8f6d73a":128:c59231daa9e9e0e8d663e8e8f4d3427":0

GCM NIST Validation (AES-192,128,0,1024,128) #2
gcm_decrypt_and_verify:49b0b085f1a8e1ae769ed09fc585d29e24d58968992e6c5":899878b0684fb865d301902812178b88c":789a9ef3d028262619a4fcb7a1b919e567c73283242f78f15de032999757f1e619ad7f8993d4f1b8843034f6e2f62990e383c5d12b9249a6a9a02222c7d44dd19586c816304ff80d17614a2023b3d0d940db5c0af89e52774sd2d6afde2b6c68245b56acbe34682531a2e57eb9a7729b3e8d96a729b15":128:2c84bf7a8947ab93b10ae408243b4993":0

GCM NIST Validation (AES-192,128,0,1024,120) #0
gcm_decrypt_and_verify:758475887e06cb6ca5487477b43914e89feda67a5c8b1b":78d8a9f2d5a02614c01e39eb574951924":b303c35d4f9152401a225537f1dfec5b33fa4235e5f0ce7b8ae7ca9d9bef6845e95b6d673ca2421eac447530b27c6dc6b9e7f1b2241b8c8cc4ac26cc2e9c0d665a35b66d779a3772d714f8020d6f2b2729848080d704344b6abdb3e6e26ef4e1a0469e5da251c7908b2e95af07d07437c0e9d4d2451ae189ad61ff19f4efb405127c":120:e8aac14b53cdbe208d330fc8d92a7":0

GCM NIST Validation (AES-192,128,0,1024,120) #1
gcm_decrypt_and_verify:e3a18a6d0e45d2f60780d3c39cee7160e28cb810b3f0985":26a4d6596655dec39b7a1583de7560d":83f8d9e58169b4c6803232119777f55c8ee4e4dbf732b040748e1b55dfc53375ae86fb9646a672b5ec5bc805a9c475cb660ed689a58abdf2230250a7df3fd8eaf0b7835fa85e738a77f4ce39616844b1ec61b79f23dfe6a1
815f295d43f61d7b5956103b31ca88afb0b3d37eb42cf77232db2258065232971c397dcbcb":120:"dc034564d4be7de243f059b9f160":"FAIL":0

GCM NIST Validation (AES-128,20,0,124,20) #2
gcm_decrypt_and_verify:"7be3990170e7a2f76f9f28241d88e48d5e8afe05756d5f01f0d2dbb9c556ed2e54a3f337767321abf569ec1a37e848c5b44037ba62951e9f970e9e5450a36d767f3945d01a20a2ed1891c4e1a51695c9abf7d9fbebcb18842c8300675099a2a5d49a9684324433d53824df8fd326b19af17f0e45bf5e4918573fba60":120:"942b522779ed0a30d737d0f5e597":"":0

GCM NIST Validation (AES-128,20,0,124,122) #0
gcm_decrypt_and_verify:"1fc443baf47543195b58c830449966e05eb9ac852c":ec0829f6f43eda13bfb2ac572aceb3de:"6c772d08b4d7507e35804572fa697cf646c77301954cc5c160941e49e230697edc23338b9f303e4ead6b1c1a2329ff025d43c30d09a9c83eefee9794948aa71d9b9d569bed8ce4979a2a4ac3b60d087d78720fa110bf90493ae7daf0b053734223156edc2d6c562e4a978a6dd5cdb229d58dd4f050auc1015f1e89daca4aa29a19":120:"87737873b825866bb29b406496caffe":"":0

GCM NIST Validation (AES-128,20,0,124,122) #1
gcm_decrypt_and_verify:"b4c4378d423931f9b32b057f5d84c6414061ca7448ad":"ec07e010ce5385883a3f4a45e4b016cde":"68d1c045c1604a3c3d4df4c7543240acace8db5266ec185ca8071e8b9037e3000b7cf819044b27222d8db92021f42a0af9259d7b16ecf4e504a0a527a2e72753617c350e3b7ed7fcedaf612ce6842fca68f2d1b8a95d88b391797f2af99f3268249444abe626376c5de0a4beec359660ea5366ff7482bdc362866":112:"06f95ca69c22a8988879295b15e":"":0

GCM NIST Validation (AES-128,20,0,124,122) #2
gcm_decrypt_and_verify:"1cd4414f4fd2d48e30ed2cd9727e3592e4306a75391cf11":"a08e32ad76d3f975d3e14adc20ff13fc":"20a271flf4e6bea8f1584ab39a7179ce4465e02f67a7738d11bc9af7b173b2e5222cd07ed947d1359d0670d3e36f80a4b50e8ce85cb6f48177fe0a6ca67e6a3f32db13cd35360bb80efcfcc34cb94dbcb9ea5cbe9a846394a135860fa57c6f0125db9b86b1eb681ada31a997638ee17252503dd13171534a1":112:"c68842caf6c507799f7c8ac6d2a":"":0

GCM NIST Validation (AES-128,20,0,124,1024,104) #0
gcm_decrypt_and_verify:"9e0e9f9ed56f00a721a9893e110dd979c5aa667a4cd22a5":"501f55d56687ff0ff0d3f856fbb4523506":"b2989613e54e903c6f83e4ce4048dd263e628651159f793bb4403edabdf6be05a1ec5bf4abed4d625143341e3ee3228b260eca513a45390cb49a0b6fcbbbabb085378374e4671d9ba265298e9864fbcee256884247c3699bdcebb79b6a3e700c3dd40088ba7bb6ab6aa11b6be261ab5647f8a47d1":104:"ec9a79a88a164e1a6253d8312e":"FAIL":0

GCM NIST Validation (AES-128,20,0,124,1024,104) #1
gcm_decrypt_and_verify:"98c8f15d98e809d60d4db00808700053f78bb3c31652c3e4":"5ccf0ff9b7d5b9b2aa06feecf669d5bb":"24ac95a6ed2f788539fba20f553de47e76f6272a4e54141e2131aace7d2daeb395bbccdb0f00e23ce04a08590f30115b626ce1c7934726f9997bbab20755b379e5438b0ad456e2d1653d1adaed4e51282643b4df086deb1b48c1b3ac3b53c4a06be2687174028ecf7e7976e5ca11c9a3827813ade32bae9f115ec":104:"7979b7c3ece66c23d5813e243cc":"":0

GCM NIST Validation (AES-128,20,0,124,1024,122)
gcm_decrypt_and_verify:"19afec43a4481f796d7756f1805b2e1514e96c5d1d86e64c":"d4c065954efed4a81bbbdb440c2e1989d":"98fca51535998d0126b55393e9fb9a23ac3c105954fc206d381909e707983b6a99d3f3e8530a1c3
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GCM NIST Validation (AES-128,128,1024,0,128) #1

gcm_decrypt_and_verify: "097709114120a2c1c3c0c146e00b869997e0141158a5dfb":875e2e5b5c02e0a33e71b678a29c15e18ec259e484178493ed3112daaa56ff2a7475681bb3d9028ef184d30658e881e908f3858f69899996207db4dda059798d88b6c8388abccf0fe2fc9f078ddc193f819f72054424ada4325985962cde1a7a25de4e9de3c2df0d2c8af33f3b140bac12b6f60fd3b3ee5579595b":c2f92d12364f0c6a3a98e867b0e67e56":128:81f1eb68d0a2f92680518df73787ba3e8":"FAIL":0

GCM NIST Validation (AES-128,128,1024,0,128) #2

gcm_decrypt_and_verify: "6be3c66b20e5e66ababbfba138e5a71e6afe23a1767b69":d89974bf1534f0ba262b6a5ef39d8b72820cc8a720ce99520febdf67515c3f6d8ce325c27e48c1cf024172df5842174aab2a9f423167257be7d7004d456b190b72505397e984fe991bf4ae92827efc62bf19525d504d237c67b553531c699d8ff979e7a5b9b9a9a51e73ca2dcafd1f814125aa8ed8c799f":a950bab0dd4815e3829b0ad3bbe1193":128:25cfde73e7a29115828dfe161718b53e:847b54e176c38018c96966fe4b4a3bf7809ceb0885009f260f1facca78feei91a835e6ca19425718110801b31b4d4ecd4ca64aaf599c14989e9a19f638baf713757b5815687b34e167ac2e8c2b2b8ad43f3d7ad8947a363c1c0cb782ec54b1901e928821cf319669dd77eb37b15c67f13ad787f743128127371ca3e6":0

GCM NIST Validation (AES-128,128,0,1024,32) #1

gcm_decrypt_and_verify: "ee1f3f674bf23c1563edccff84ae4bf2b8ecccc1fb5ff125caaa93b6c6834389bd79655bd4bac75238e0f65fd3600ec57c877479309e85b6677e78de2077b712cf28795d0c8feee994f7973a723838ef67c6237778136a79aa990ecbced6376445e805ef98f168826e57cb8d07e7b1de5c89ad98358646fa566dd2a71c40e02751a":32:4d74971:"":0

GCM NIST Validation (AES-128,128,0,1024,32) #2

gcm_decrypt_and_verify: "3bbe223e253bf27225992e8af6861013ecd0c88710947ed4":4fbc0f9faaffb600f0de38bf12315ca5b53884166f479f7b3b280f456559a9847ce7c734fb2fd916e00991ab1810c772c7435d32210699490d251b767e740147096a1cd1b2c0917512ba1081844b0d4d24900aa3b1d5660ed9f2a5850563a17f350e12755b96566c5c78c1593d5cb778e29f82209caf53e60fffdd75f6957cc9718bf410ca40229ed4":32:fb845ab7:FAIL:0

GCM NIST Validation (AES-128,128,0,1024,32,1024,0,128) #0

gcm_decrypt_and_verify: "097709114120a2c1c3c0c146e00b869997e0141158a5dfb":96a690e5319e949d4923988025307543f16df9790ace24524cf9808cd62093359287251503f4231bf2cd1a16a80bfa28d8f585d96855dce1932f4919a92da2618d4484fc18a23499ac386ab44a9e38e3a41e7c54acfeff38c162d747e7abaca13aaab7e9c8ae06772e7bfe473ecofa7aa6d3f998f1dbad4ed183ced:18f41424acaa009996ceaa815b24a4":128:9f3c0349c5a4a7408a2d663b80ff1b17:6100b091e52366bf4222519d69874b66666a2b8bb7af1d7c71aee58ab6ee76384d11a0ee5a2a5af9d194b70b3265ec61872f6fed547257bd7db2e1f20c857382f469aff4b1dce68ebceadb587cee5b505d658d57d5033e30b639eea1f6537b37c1756f24976c8e43cfddae2142855d68d90d5cd8ce2273d258ca:FAIL:0

GCM NIST Validation (AES-128,128,0,1024,32,1024,0,128) #1

gcm_decrypt_and_verify: "4fbc0f9faaffb600f0de38bf12315ca5b53884166f479f7b3b280f456559a9847ce7c734fb2fd916e00991ab1810c772c7435d32210699490d251b767e740147096a1cd1b2c0917512ba1081844b0d4d24900aa3b1d5660ed9f2a5850563a17f350e12755b96566c5c78c1593d5cb778e29f82209caf53e60fffdd75f6957cc9718bf410ca40229ed4":32:fb845ab7:FAIL:0
GCM NIST Validation (AES-128, 256) #1
gcm_decrypt_and_verify:"d1f6ab95f9b387f75abba9d4c3d9955e6e4e2988ed22a07b7c4":"e72f29b1fc1d6f2d93aa0f3b79e4eb9806ce92c4d4090ac5c0e3c793d9d7c54f17e834b98d18afa57a516f9aa613a9b65aa2f083a854730547e28a1f60fe97d8ba1d24d33e11487b9f68873ec634e4635530c905df6df74e4c9795ac127af6356fe6c6ec1e5d68c628e71e71fadc8f8452b72f53f4331918118":"3d954294d6d3279b9eb3c45424a8e7c"":"120":"13521236f190f78e75c0897c128d092b678365f32d26c7424bab0a4c7eebe2728f39893dcd1b280c03213672721fbfc939a0449557678ec61ba0afbe25817e6f7d9438f184eacdfbac1216d65e7f505f47fb7d9205c5f7fe999af8306a3d9850c5908be5f87cb1d36a4837db428aa997d7fbc1e8377f88d81a19259504c87fc94dbd766ed93':0
GCM NIST Validation (AES-128, 256) #2
gcm_decrypt_and_verify:"0bc344b1a4078807e5f53a6e7e1e36f4a81308473ae2f4c":8bd7f394c71e3765b7c717fdd9a9b6afa699f48b46300e4048985fbbd7c60c39c3716767fc5247806cb2296dc1c11e131234927160a73731040dc376eab51e19a60a5c4a579289550f12eadaa074272b2de1473c3c6af62f4d449ef37d76b65f6d210283e94ac5ac24cf13186e444d80a7b0be14373e0462546f1cae66b49e738a742c":bd505fcb4a6e6e2c58ff29f5f695f9b9":120:"8510fff711b879f56ea2fe43ff6ff50""FAIL":0
GCM NIST Validation (AES-192, 128, 1024, 0, 112) #0
gcm_decrypt_and_verify:"c8097398fc2f3193eeaca6a9a93a323109681b652504cb59":80b0abaebbd537a8010ed75cd172d29d50f59b2e4d01f8664db2dfda8f57fa0ed87e64a779a1d7f5e568b6acdfc739572a7176752307b430fb1fa1c3c2e346477cebe7d01b16745ac8929a7f446c03ad9a9e8a5a935de78ac6c701e8c1c5ed62550c42949cf354z5f5e4f6a9b9b020ae888b16ef72a1237e5d1de820:"776248381914e16908f52d19207881f5":112:"7fc4388b2f8eab0f0cf2d6a08527c""FAIL":0
GCM NIST Validation (AES-192, 128, 1024, 0, 112) #1
gcm_decrypt_and_verify:"76d4bb5694faaf3444db83bd6c47d56b66ab52700826f2":9e31fd6a617f1d4a5f2af2c4827b13124d9da5d678a3298b8f1b6373b92be358601e5bf0d6e51aef4b9e44c1812119f1f2fd2db023b0ed829a8885b615ee72e5e3aca604fa26cc64438ec4c30e90f7348e9116ad88e8ef74798320d2a16679a546ba1a9af87720b074e4e48e086522d0142689e71a4772ce219563f6978603977845d82faccb401817ecce6e2fe":112:"c955a3b316841b0e7e406d2898c""FAIL":0
GCM NIST Validation (AES-192, 128, 1024, 0, 112) #2
gcm_decrypt_and_verify:"a3e5020695587894074d789c988be1a51791e5f88372740e":0c0bff3b2d4dad17ec5a7662d86847fbb76e5280cb0af46969c9baa7a075d4898752a1072279bfdbae5ca3572ed1bc96fe5cf24af98e9b77a2948aae3d8b7d393f84c9437f788480f3405162358e03cf1859a70f7c29b89be20876234ffee76b818dab22b8796c87b0904d1af46de519c20d8d1b1d2cc2e439a5b":4cd56de54e5140a587be7df0d2d3a39e":120:"1a29527a43132025991899d97509""FAIL":0
GCM NIST Validation (AES-128, 128, 204, 0, 104, 0, 104) #0
gcm_decrypt_and_verify:"afe986ead7997270639582e2e13ca846f67ce156150439f839":7e1b354a5b214bd59147e32d81e658705089c38035d0e4a32eb1a5c8927443c6903d2efb1a7a007eecc7cf89f8b8f8b207d39639797bab47c7f2f639a8eb4e9207696ed1567664f3ac3a4f1687301ed7507766650e5e3328080ace740ab72e8612abc6dcedf1ff8e8e18732d5845e7c6665e72e5b0b02a91788634bce122836c:"7f58a95ed10066623162a6b8d10989e94":104:"3cf1c8d4a4f4cd8a78a8b4e81":"a7f252d7983e07370065805901bdf83d40f4d4ab5800cc23872d00a7097dec71549ddcbb6b0a62c9f64fca591d0982fa3021f2884f499f17e20f759ea7125a2b2bd493722f23938994eb2709c805f33ed9889e5a3966f9d7b76add46afed230e8f417425f9db79c46b560361de7c5d887f71a9d82e491c0c3daaf56c";0
GCM NIST Validation (AES-192,128,1024,0,104) #1
gcm_decrypt_and_verify:"2faa215841826a977eaeafdd0993346210c49dd04d5d493":"e8eb3b6ed0da4201b49afa8a3036445aba11db404f3e7f411336bec7e679676a991e05a67555ca15a576e02e6f4b6e40d448c86b8ddfd14ebc01cc7d84aa20f0a0abc9b3679d6bd79de207edead2c7d4f4c5f84e116967e821d3c56b9a1d93709c03b914588787b74f605f2f4989d5ed534f71a58e8a86199eeff69ef5f5":"537ae0ee307af3072e745570aaadce34":"."
"d01ffbd9378850e07328e6b8":"FAIL":0

GCM NIST Validation (AES-128,128,1024,0,104) #2

gcm_decrypt_and_verify:"128ddd2170c403a517615056dcece0cd19d6fd763e738":"cfe977977ee37bf4cf564419bf2268cc64479eaf743597087415443290f3b2763e48ad4e9c762000096513400e230449jdbc200a3acfd4ef2eb19b80bace3ef99fde18119d2fdd30f8e66d5d9341391a57d23792b720ce2524f02b464e4acdc0d752232b33620caec925967bf051440c28805d816a676fc9d5935a1":"5124b104c43d875ecac63c98c45994a7":"."
"56ad9c1653f11a411d649cc8d8679670e2bed999e88551d2bae29b9b61f74517808e14d1795":"."

GCM NIST Validation (AES-192,128,1024,0,96) #0

gcm_decrypt_and_verify:"98581c28983c4da321ce0c419cc0cd47d53977e513489":"bdef5b65b111b29e781a6b71af1601975c5285b5cbca15c03077b26cf3f14323cc6dd76633aa836357cb4b5099d0510a71f81059e8227cad111fe17a19795d468902ca66ccc1a5f145ecc15306783b3d43b61e9a2f69f7272a09a78974e4edbd2d1b7de793d2426ffaf1557ca28e74059d3ba06ba419a47b39":"f102354254333b871202ce2ca6acbb194":"."
"984943555a7ae5f154f8033":".80828bdf4dc1bb8890416a757d2529b868aa8dd60a7ec9add24fd29edbcf3bb599a298e14a4cecefe2c275b132f879b06d708e48ac4b7cdd818a7e76fca43579329e5b6e0e9283dbf94545b686bff9d04aac8dfe503c65d13fcff42ec841f2f4c5f7a6af8e9f9d69e98af90814f7c7131f6d74ab81a4b8":0

GCM NIST Validation (AES-192,128,1024,0,64) #0

gcm_decrypt_and_verify:"167bb8bd6810488f3e9e12b77f50a0c113508aa4d2785298":"4f787de12b9a07a589edeff74c8e7a6cdaaabebdd465a8e6170e1efc298242098b516fdd4c3c7f9b0c15720a4455db4dd63b59a8eaa82bd578eb3cb19f8b23ee6897ce1faeafe82940e4afeb6d6ff34de8db079065bf52b08d33e692c28f0cd719833ce77f93332f83cc37d74a62f7d2092d1ec7b416881d5458524a7371d19f8d3323fd90c":"49da91e926091a4485d75d21190f3e0":"."
"99198f559fafa763651bba58e":"FAIL":0

GCM NIST Validation (AES-192,128,1024,0,64) #2

gcm_decrypt_and_verify:"715f8505fb6a2f08fa05575d4074fc83a3852e6007cecc8e.":"3e19ec02365e450e946123a332f9859352eb5920a6cbca87822285dac9d2b2825f3620b60de695f3d1dd166b0f4976cf4eb88e4efb65839ede2805276a7b7304dec7adebe49f6b9eb0ed9e9af6d4917b2744f25f3952d04443c32a4af57ae156a23afa8329c969048345171af20f610b5be7d9e40dfe7209128f029edef6bf.":"b5efb9fefaee3de41b5c6e9aa75583b8d21":"."
"9604d031a443dc3d0853e641c":"FAIL":0

GCM NIST Validation (AES-192,128,1024,0,64) #0

gcm_decrypt_and_verify:"4c3d83f8185a148f68c98e58a776a645b92ceeb0ffbe98e.":"1c7a2c0a9037e9a9d9af098898c998eb36a9420272c536a81713050a2669939db2871b82ca47dca1839398181d9cb499affcc4ed57ea79f7d49b6d3540610215b2c65481b294638cc41246a7fdca4230d5ff1e7e3d8d26dcd0c435fc3ee98f7789fe613482157a97272610.1e0842f5160d3bb26ae39e1117b035c3.":"ae257d44dd140be759f311fe24e85a":".64:"d951beb0d55f9fb":".zea7e922dfdbd8963e2078aae216636276735c7ebd757f5a759e91bb3d9427a9388241b1d307040c0b9e447c67d3b549911c1aece97914f3bce22ee05171bc59229299983ee70af79303265bc1ae1e7334202460618b4a8891d1a7e8aac5ac1ede042c4ee662d14849993f89e771fbb783644b552120fd346250df39aaa403":0

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GCM NIST Validation (AES-128, 128, 128, 128, 128, 112) #0
gcm_decrypt_and_verify:"403e49feadd4db76635e2de4b1e12600c0fe0ab30f4696d:"221c61d769febece3913fbed90a201a805f1105d8acc815c98abe0947c9e495c09d4b92f0830d349db095e08eddb88b673a909acce65d7e71a85366e20f53f61839a46dcb304f3e2261d27606b9c9e7b88df6a41e9a70e187e6cf9e4
4a25a7c0dd52e04a42b677723acaa8affdf566e:"1a60258a5e6159f2814b4d3772552a80d:"4a9ff933c612013224e86515ddad433bca7a3d27fd2f75828670484df94a96bb9a9357c1b2103dadb929c44909fbb7974fa8752353b588707049333c3fa8b333196c266f776c1oaeb9c3a24a8276817524f7f11d94c192f3508eb1d275f90d27c2492e91fda316e9918b787f226997127986cb9b105c65f6b683292f9288:"112:626646b8ffe38b3ba6df62679011e3:"5c769c0e5a7659084a4d873960602529bda36124777ec5759b9e3730747a2eb79df6764e38cd3451e319eece7474df194862692f9d38e7808f01ad433fb4d6904ed2d5514161ad25e3e237655e00e53f1e18d4525765808e892b6f0ff6a7ae40a337f8dc48d690fe013a67264a08e9b5fdd0099a19512599a0a268f401a09b:
GCM NIST Validation (AES-128, 128, 128, 128, 128, 112) #1
gcm_decrypt_and_verify:"c3471259512d1f03ce44c1d0a8e186a956e1434a6ac5676c:"ddb59b3bc30f3b92be579068a8s5df948e60362ebf5f15fa6b492f19b083d34f39da3c9e39c3e26e150b5ff851e7e7fd35d3ad17dc49f1336363b07349996b162b50c99554ac3d3d959bd7e437e9100db4c41044c6e192de12942ad027226e0a29609390d6e7088d337e8c650b3301a7049ed5a9eb20e5f3c374936b:"50164e7c64661483a73173675d2c6b672:"11d15f523888ae1b6c86d34bcb966995765f1e59e78b8d347f560e721849b14e9ff9b056b67852fc0423d968182e07002e50ddefe70a7e8191e6b62404e3eb400c83767d62aa124a8553367263d0fe091fc7abe63c6e9691187eb9054989968378bc2c9ed5a7b5db06b6bb13393498b981f8e6ca57590a265f1258a8:"112:6c5f8322e8a43871ba72a3419a:"50433e8712702abf2809331e405b83b03c3d173843507c0010ac3f975a250d01b14a45e9ce51935cede41330301ea07f15e0e53ce0c5c19e71b1da0b68b08234506e330563ede941b0350f1466753cd1a2e7e16e469cdd2d8d60bf5286219018d8a4bcda66a440d2980aa3a27a9f58b8e82ed8e2ff2fd79a22c3ff028":0
GCM NIST Validation (AES-128, 128, 128, 128, 128, 104) #2
gcm_decrypt_and_verify:"c326a1e0f6a994213987df4fcd7d8fe6a7b67e5f5fc050d:"6d5016c434a0f4b4ad5e90b6bb8e2d8a4894f120f5d2d847e546a0a4c9cfc956a654d69f6a3529a48b90491e0d31c08ea8ef3647f117b8ce77e3c9b9bc311375b25378632bf16f658209944b8de0bd9940165d66005d2ed7215b9a7626f6af1673c8dd76d768b98d16e19c750d0ad793f584ec85f5d5167b2c78fd477a629c:"e94aa4ba84a40d4dbd5942787a4c951:"8f4015c75f82f0d9c250a86eb945184e007a01904627a4bd0d23f8eececedc320756a2223868d0a06e6bb8a13de008ced410896ac55bc47c231cc81370ceaf9eade225e017d598090e6291cc4ca27db30780e6c6dbbf662b20226a76837354574278e5c3afe37e535027e675421f94986e6b7b26321bbca15c75ac7c13cdce51f0:"3269922affb9d7675fabe041cc8e:"FAIL":0
GCM NIST Validation (AES-128, 128, 128, 128, 128, 104, 104) #4
gcm_decrypt_and_verify:"7e8f186570640a8ea872416924c5359797dc3cadd3557eda1:"9ec9d19a9e9b9fa843486e1bb8bd90f535c5e04ba2e30174da4489d8307439d635f863ed00daffdf15179c4744cb4b3e4e4448574676db2cde2995870d0643c002a9d8ee6b2c853062b6837a4a1c25a0b9a4bdf0910a151772c0774384c04ld1caeeeb5b0563690ac23cd617f1af00fd1d6306f2ccfc4c1e7f69343b30fbbc5ee2:"000ca954e958f3e9325c5f6358ab3h8:"d0195b744351a25a57a99df9573dafaeeb985031949b4b7f4aefa77375a403dada8a98934e48480242e767b22e7c1844b77e00181f583962175d522c083a8d81d788b0f6cf615c439d60926baf6d655a1bbd2b450746aee99a6a10756602987b888d2c3530ae0437d41f27baa5d56001f156002f9b0f25008ec1b2de0:"104:22c2efedff5d9chb528861c4eb:"FAIL":0
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GCM NIST Validation (AES-192,128,1024,1024,64) #0

gcm_decrypt_and_verify:"46d6e982ffe0fe7d04a84384c56739b69626d5e004e7fb":"a5160bf2d397bf5a7eaba2df3
3a04240411802f4492d464fdec03fc7772d0d45f7ed3a60f2784807306c504a340f73ac918fc898be5c5e977fe9e84
4153e150c371199accf380d8215b8553d1344ebe79289b9527ede14416161094d6f7c4de20a1c644b2c2f5779a
22bd4117a7ed11d33e5e95ebe4b18d3f00":"794ad1e02ab6d6ff460c6747f6b0fe0f48"":"67a8455c7d3fbf3ba3ce5f5c40e
0be935bf9417e8057718323fadd06b38a681b88377979bf7f15867e1ca3db093fadcb3f1d0ec2e9f1d094c8a39790b50
7c901fa30a85de51eef9fa7f4d7403ceb2a27a2e0bd1466ba0bd3ffdee11628310db7d65ea1343b018084ea241995f86f
efb54ba919a4dcd2369d2078bab305671b56:4:84f1efd34f88e84:"FAIL":0

GCM NIST Validation (AES-192,128,1024,1024,32) #0

gcm_decrypt_and_verify:"991dca2a2e8fdad2b4e46e462a3c06e96067ef5f9b133496a:"9cd027cf020111ca1b94740d0
28516c7f46d22a049a18fd35c1cbabf693b830d0dfced7822bd0a30b8b3f5a00nf971ca905c664ddde960989d2f2937e8eeb2
8c2cc6e2fc251220a3682c963f5580c6541ca1673cccb18ed104ec7390021d244bd9f92ad8e89e39a48b3eff8211c8a6
259b6d6a2cafd17dbb8e13552538056e06381:7981392d282ba7cc75804d1f2e647659:5a94ade1af101a8af263318
b02015975229b194896f6c013b0f8e29c13936d1d98162123ee3419059b93cafe3b8f91ea0b624a7a509e5c6
a41ae7812019b58595d03d35b3c5e1ae34a1a292b979e06e21230251939404ea4d9bbff8d89ba1e833b15bdf05c4d1b8
3a57745a4a651a757cc8684acdec850a2f25367:4:15d46dd645abf2:0

GCM NIST Validation (AES-192,128,1024,1024,128) #0

gcm_decrypt_and_verify:2087e14092dad6df89967515bc1fca90094f030328080f0d:6d039513061980b195bd2f7f
c7079ca4b7e0fdd50d948cfeb5ba10b99e3a2a7f08ab0d000c428851d82eacab0d414cd65967e9d5b891987676da
635b6d86ba7f4a41e0299e975f1a2363bf613a1ca7e2a121ae935a0e965a64d57dcd6b5f245605f19164838844ce597d2a3
b7ba31a5069a4f896b940a71de32bd0e2bc18d:6d03544af6b868a444b4a7461951175d979d1:795845d268c8d8f9135d13
0c390f35f5f83e7f7ee69e6a18f0d8e92ed473b54cac122cc87a672b8e326bb8e3746090eebaf2d59751f71acee5ee4
3c13fde80c80358ee1cd90f2a09a24e3329ad2e01a2ebe2e7138bb275d499b7c3d9d17f8714278d5150ff6aa3f
b3a2fd1225542a39e900665620f15c664af:52:3:1e81a4c10a3440d0022d8b1a4e2f5b3e054f4c80f947915c1542f89e7f73ee4ec803d9c5a81f8f6280e3ed68a369121141ff71a4e4cfe1921d8ac46e3ba1383c2678ca76889a98002
4ee2a21bcbf3777723b5735e1ebe78999f7c7eace2082ebbb8284216867d37b5a3705d5b87d070a96db34b5b45afe
7f39830498c112:0

GCM NIST Validation (AES-128,128,256,512,64) #4

gcm_decrypt_and_verify:"7f6d627c775de2f7892797de72b67979a9f1e8c23c8daeb9c:92a60d38fc6879b2d44635aaf
4416a1a42d1a052680e5aa4e9ba5a010462991a3dd47d7328ca4a693673410f9bba3f705a551949ab0d43fef1e3b89
enc_dec_buf:POLARSSL_CIPHER_AES_128_CBC:AES-128-CBC:128:1
AES Encrypt and decrypt 2 bytes
depends_on:POLARSSL_AES_C
AES Encrypt and decrypt 7 bytes
depend_beston:POLARSSL_AES_C
AES Encrypt and decrypt 8 bytes
depend_beston:POLARSSL_AES_C
AES Encrypt and decrypt 9 bytes
depend_beston:POLARSSL_AES_C
AES Encrypt and decrypt 15 bytes
depend_beston:POLARSSL_AES_C
AES Encrypt and decrypt 16 bytes
depend_beston:POLARSSL_AES_C
AES Encrypt and decrypt 17 bytes
depend_beston:POLARSSL_AES_C
AES Encrypt and decrypt 31 bytes
depend_beston:POLARSSL_AES_C
AES Encrypt and decrypt 32 bytes
depend_beston:POLARSSL_AES_C
AES Encrypt and decrypt 32 bytes
depend_beston:POLARSSL_AES_C
AES Encrypt and decrypt 47 bytes
depend_beston:POLARSSL_AES_C
AES Encrypt and decrypt 48 bytes
depend_beston:POLARSSL_AES_C

AES Encrypt and decrypt 49 bytes
depends_on:PolarSSL_AES_C

AES Encrypt and decrypt 0 bytes in multiple parts
depends_on:PolarSSL_AES_C
enc_dec_buf_multipart:PolarSSL_Cipher_AES_128_CBC:128:0:0:

AES Encrypt and decrypt 1 byte in multiple parts 1
depends_on:PolarSSL_AES_C
enc_dec_buf_multipart:PolarSSL_Cipher_AES_128_CBC:128:1:0:

AES Encrypt and decrypt 1 byte in multiple parts 2
depends_on:PolarSSL_AES_C
enc_dec_buf_multipart:PolarSSL_Cipher_AES_128_CBC:128:0:1:

AES Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:PolarSSL_AES_C
enc_dec_buf_multipart:PolarSSL_Cipher_AES_128_CBC:128:16:0:

AES Encrypt and decrypt 16 bytes in multiple parts 2
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:128:17:6:

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
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB

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 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
cenc_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
cenc_dec_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
cenc_dec_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
cenc_dec_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
cenc_dec_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
cenc_dec_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
enc_dec_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
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CFB128:128:17:6:

AES Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_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
enc_dec_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
enc_dec_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
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR

AES Encrypt and decrypt 8 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 9 bytes
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR

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
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
cEnc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:0:0:
AES Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
cEnc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:1:0:
AES Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
cEnc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:0:1:
AES Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_AES_C:POLARSSL_CIPHER_MODE_CTR
cEnc_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
cEnc_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
cEnc_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
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
cenc_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
cenc_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
cenc_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
cenc_dec_buf_multipart:POLARSSL_CIPHER_AES_128_CTR:128:16:16:

AES Encrypt and decrypt 0 bytes
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:0

AES Encrypt and decrypt 1 byte
depends_on:POLARSSL_AES_C
cenc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:1

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
enc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:16

AES Encrypt and decrypt 17 bytes
depends_on:POLARSSL_AES_C
cnc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:17

AES Encrypt and decrypt 31 bytes
depends_on:POLARSSL_AES_C
cnc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:31

AES Encrypt and decrypt 32 bytes
depends_on:POLARSSL_AES_C
cnc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:32

AES Encrypt and decrypt 47 bytes
depends_on:POLARSSL_AES_C
cnc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:47

AES Encrypt and decrypt 48 bytes
depends_on:POLARSSL_AES_C
cnc_dec_buf:POLARSSL_CIPHER_AES_192_CBC:AES-192-CBC:192:48

AES Encrypt and decrypt 49 bytes
depends_on:POLARSSL_AES_C
cnc_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
cnc_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
cnc_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
cnc_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
cnc_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
enc_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
enc_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
enc_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
enc_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
enc_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
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_192_CBC:192:16:16:
AES Encrypt and decrypt 0 bytes
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:0
AES Encrypt and decrypt 1 byte
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:1
AES Encrypt and decrypt 2 bytes
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:2
AES Encrypt and decrypt 7 bytes
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:7
AES Encrypt and decrypt 8 bytes
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:8
AES Encrypt and decrypt 9 bytes
depends_on:POLARSSL_AES_C
AES Encrypt and decrypt 15 bytes
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:9

AES Encrypt and decrypt 16 bytes
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:15

AES Encrypt and decrypt 17 bytes
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:16

AES Encrypt and decrypt 31 bytes
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:31

AES Encrypt and decrypt 32 bytes
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:32

AES Encrypt and decrypt 47 bytes
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:47

AES Encrypt and decrypt 48 bytes
depends_on:POLARSSL_AES_C
enc_dec_buf:POLARSSL_CIPHER_AES_256_CBC:AES-256-CBC:256:48

AES Encrypt and decrypt 49 bytes
depends_on:POLARSSL_AES_C
enc_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
enc_dec_buf_multibuf:POLARSSL_CIPHER_AES_256_CBC:256:0:0:

AES Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
enc_dec_buf_multibuf:POLARSSL_CIPHER_AES_256_CBC:256:1:0:

AES Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_AES_C
enc_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
enc_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
enc_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
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_256_CBC:256:1:15:

AES Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_256_CBC:256:15:7:

AES Encrypt and decrypt 22 bytes in multiple parts 2
depends_on:POLARSSL_AES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_256_CBC:256:16:6:

AES Encrypt and decrypt 32 bytes in multiple parts 1
depends_on:POLARSSL_AES_C
enc_dec_buf_multipart:POLARSSL_CIPHER_AES_256_CBC:256:17:6:

-----BEGIN X509 CRL-----
MIIBqzCBDANBgkqhkiG9w0BAQUFADA7MQswCQYDVQQGEwJOTDERMA8GA1UEChMIUG9sYXJTu0xGTAXBgNVBAMTEFBvbGFyU1NMIFRlc3Q0EXDTE5MDEwMjI1OVoXDTE5MDEwMjI1MVoXDTE5MDEwMjI1OVoX9n
-----END X509 CRL-----
-----BEGIN RSA PRIVATE KEY-----
Proc-Type: 4,ENCRYPTED
DEK-Info: DES-EDE3-CBC,BE8274D6692AF2A7
<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>

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):
00:b9:3c:4a:ce:5c:8a:3e: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:20:9e:ed:03:3f:8f:0b:ce:10:ef:
5e:1c:81:60:46:3e:b5:3d:2f:a6:de:47:1c:bc:
97:17:0b:13:0a:76:4a: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:
XTEA Encrypt_ecb #3
xtea_encrypt_ecb: "000102030405060708090a0b0c0d0e0f": "5a5b6e278948d77f": "4141414141414141"

XTEA Encrypt_ecb #4
xtea_encrypt_ecb: "00000000000000000000000000000000": "4142434445464748": "a0390589f8b8efa5"

XTEA Encrypt_ecb #5
xtea_encrypt_ecb: "00000000000000000000000000000000": "4141414141414141": "ed23375a821a8c2d"

XTEA Encrypt_ecb #6
xtea_encrypt_ecb: "00000000000000000000000000000000": "70e1225d6e4e7655": "4141414141414141"

XTEA Decrypt_ecb #1
xtea_decrypt_ecb: "000102030405060708090a0b0c0d0e0f": "497df3d072612cb5": "4142434445464748"

XTEA Decrypt_ecb #2
xtea_decrypt_ecb: "000102030405060708090a0b0c0d0e0f": "e78f2d13744341d8": "4141414141414141"

XTEA Decrypt_ecb #3
xtea_decrypt_ecb: "00000000000000000000000000000000": "4141414141414141": "5a5b6e278948d77f"

XTEA Decrypt_ecb #4
xtea_decrypt_ecb: "00000000000000000000000000000000": "a0390589f8b8efa5": "4142434445464748"

XTEA Decrypt_ecb #5
xtea_decrypt_ecb: "00000000000000000000000000000000": "ed23375a821a8c2d": "4141414141414141"

XTEA Decrypt_ecb #6
xtea_decrypt_ecb: "00000000000000000000000000000000": "70e1225d6e4e7655": "4141414141414141"

XTEA Selftest
depends_on: POLARSSL_SELF_TEST
xtea_selftest:

-----BEGIN CERTIFICATE REQUEST-----
MIICgTCCAwkCAQAwPDELMAkGA1UEBhMCTkwxETAPBgNVBAoTCFBvbGFyU1NMMRow
GAYDVQQDEExFQb2xhIjNTCTBTZxJ2ZxIgMTCCASIwDQYJKoZIhvcNAQEBBQADggEP
ADCAQoCggEBAbkKhHz3AatVVU4v9Nu6CZS4VYVJ6Vj7oRZDb7ogWUtPxB1BHiHzJZ
Zldr/SvgRlzt3PkuGRW+1moG+JKXiFgNCDatVBQ3dfOXwJBeeCsFe5cO2j7BUZ
HhgzCEfBBUKpUzD7NdDh9NEFFAZ3M7M7D0D4bYEIXwqxU8YwbU5rPia7n+SnqYF
W+4cT4w151Z1CQG1QkUXh3aYaj8Jgb6ZSxk65Wb3P5Bx7em2nxbacwCuhQs
FiScStzN0PdS3P3xLaAj/X707McoteMqJcWtbLqZPcG6ezz1YeITWZ5uWpJ4og/
DJQzQo93f6f2JE+e0p26t7ExaymsxQ1KCVLECAwEAAaAAMA6GCSqGSIb3DQEBDgUA
A4IBAQAzed2cYYP9j/xNHBRhDxjeh5uFyDsKcvw/06Kvy8F7t6G/0cnnfhSpPnea
ULP2jk07iMIFiaDDKczyg4H2U4h4+:Ud2YdAxHYWttKnvj43XSoWSmDEiUqgPAP
C4EmgPFExtxj+n5fLwGdVf3mJ3lIjxSnJSREcaH8uqyXW4vfF8e0o+9gdM+aT/w/
Oj+jyYepIlpB+1jq1slr9NLoJLkJxHbQFb7IlgQXJKcw5z0hjdoSuQckMO5z
3gVaaHhjCQIT01fDfylTCceDoJpskoZxbDVXnCho+ZLfyMesoC OVezZLJhDYT1w
H5jw6f9GW8Q9XP+EQc6zhmYlU---
cmake_minimum_required(VERSION 2.6)
project(POLARSSL C)

enable_testing()

if(CMAKE_COMPILER_IS_GNUCC)
  set(CMAKE_C_FLAGS "$\{CMAKE_C_FLAGS\} -O2 -Wall -Wextra -W -Wdeclaration-after-statement")
  set(CMAKE_C_FLAGS_DEBUG "-g3 -O0")
  set(CMAKE_C_FLAGS_COVERAGE "-g3 -O0 -fprofile-arcs -ftest-coverage -lgcov")
endif(CMAKE_COMPILER_IS_GNUCC)

if(CMAKE_BUILD_TYPE STREQUAL "Coverage")
  if(CMAKE_COMPILER_IS_GNUCC)
    set(CMAKE_SHARED_LINKER_FLAGS "-fprofile-arcs -ftest-coverage")
  endif(CMAKE_COMPILER_IS_GNUCC)
endif(CMAKE_BUILD_TYPE STREQUAL "Coverage")

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)
  include_directories(ZLIB_INCLUDE_DIR)
endif(ZLIB_FOUND)

if(CMAKE_COMPILER_IS_GNUCC)
  add_subdirectory(tests)
endif(CMAKE_COMPILER_IS_GNUCC)

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 ${CMAKE_CURRENT_SOURCE_DIR})
<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" ToolsVersion="4.0"
xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
<ItemGroup Label="ProjectConfigurations">
<ProjectConfiguration Include="Debug|Win32">
<Configuration>Debug</Configuration>
<Platform>Win32</Platform>
</ProjectConfiguration>
<ProjectConfiguration Include="Debug|x64">
<Configuration>Debug</Configuration>
<Platform>x64</Platform>
</ProjectConfiguration>
<ProjectConfiguration Include="Release|Win32">
<Configuration>Release</Configuration>
<Platform>Win32</Platform>
</ProjectConfiguration>
<ProjectConfiguration Include="Release|x64">
<Configuration>Release</Configuration>
<Platform>x64</Platform>
</ProjectConfiguration>
</ItemGroup>
<ItemGroup>
<ClCompile Include="..\..\programs\aes\crypt_and_hash.c" />
</ItemGroup>
<ItemGroup>
<ProjectReference Include="PolarSSL.vcxproj">
<Project>{46cf2d25-6a36-4189-b59c-e4815388e554}</Project>
</ProjectReference>
</ItemGroup>
<PropertyGroup Label="Globals">
<ProjectGuid>{B9CD06FA-D063-4AFE-BF05-1348142274D7}</ProjectGuid>
<Keyword>Win32Proj</Keyword>
<RootNamespace>crypt_and_hash</RootNamespace>
</PropertyGroup>
<Import Project="$(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>

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<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)$|(Platform) == 'Release|Win32'">
</ImportGroup>
<ImportGroup Condition="$(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>
    <PrecompiledHeader>
      <WarningLevel>Level3</WarningLevel>
      <Optimization>Disabled</Optimization>
      <PreprocessorDefinitions>WIN32;_DEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
      <AdditionalIncludeDirectories>./include</AdditionalIncludeDirectories>
    </PrecompiledHeader>
  </PrecompiledHeader>
</ClCompile>
</ItemDefinitionGroup>
<ClCompile>
  <LinkSystem>Console</System>
  <GenerateDebugInformation>true</GenerateDebugInformation>
  <AdditionalLibraryDirectories>Debug</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>
</ClCompile>
<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>

<ItemGroup>
  <ProjectReference Include="PolarSSL.vcxproj">
    <Project>{46cf2d25-6a36-4189-b59e-e4815388e554}</Project>
  </ProjectReference>
</ItemGroup>

-----BEGIN RSA PRIVATE KEY-----
MIICXgIBAAKBgQDMYfnvWtC8ld5bPKae5yXSxQTt+Zpulf6AnnZWfI2TtIarvjHBFUtXR096y7hoL4VWOPKGCsRqMFDkrbeUjRx8iL914/smyf6sh9c8Zk04xEOpK1y
pvBz/+Ksz4uZObtjnniot0NBGdjMKxveTq+VE7BWUlyQjQtQ8mbDOsiLLvh7wIDAQABAoGAEf1PT8MPpAJNjEJrfkAMTgsLrvCurO5gzDBbxhPE+7tsMrSUPDuix3HB0
iEg3Zbz3obQwV7bogcr34W40CMUlJf5b5irHRG8JczZuncmofDy6yz75V5s75O85z
fV2TuUVuyh1rM6rsBYKsMLVymUb4vtXEMHPzdCl9LECQQD3ZfgGqmdMWq8v3BIKhsq4FsorvzNIMZIoRZzcvBT339Bp1UQ8aUo8xBtHiRwuwW1NaPNGYKX6XQ6
puuWuTiJAKEA03oi493KnFPLRwWypqf/s6ZNIvye+euF5N5FfIeJcYbr/GUDRYv9o
pRozRS1jN4x4ZB1K2T7T9MwPSHD6j6K4twJBALdHTTfTRzjGnae7SAQQ+CcFYFz
JYi6386B2yUVJLFj+j5RaMVMcKQ7xGnvGm7vxtNgjt/j3qq60avXUfulzgECQQDP
CEVLhCd/4ZeZozSWMPTGTRzOCKmoRqNW0FlG6PfpD1qSwh04KG44ufIOyus5HUGr
JZY+bc4x5bWZFMkoUrAkpAEyEgQzesKFqcht1qv3pLXJYQBBw6leFXgHk11a7k
+AkexhrPYyq/4tX02TLk2hs7pYgNDOqZCvEu7jN3RUa==
-----END RSA PRIVATE KEY-----

Certificate Request check Server1 SHA1
depends_on:POLARSSL_SHA1_C
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:"data_files/server1.key":SIG_RSA_SHA224:"data_files/server1.req.sha224"
Certificate Request check Server1 SHA256
depends_on:POLARSSL_SHA2_C
x509_cert_req_check:"data_files/server1.key":SIG_RSA_SHA256:"data_files/server1.req.sha256"

Certificate Request check Server1 SHA384
depends_on:POLARSSL_SHA4_C
x509_cert_req_check:"data_files/server1.key":SIG_RSA_SHA384:"data_files/server1.req.sha384"

Certificate Request check Server1 SHA512
depends_on:POLARSSL_SHA4_C
x509_cert_req_check:"data_files/server1.key":SIG_RSA_SHA512:"data_files/server1.req.sha512"

Certificate Request check Server1 MD4
depends_on:POLARSSL_MD4_C
x509_cert_req_check:"data_files/server1.key":SIG_RSA_MD4:"data_files/server1.req.md4"

Certificate Request check Server1 MD5
depends_on:POLARSSL_MD5_C
x509_cert_req_check:"data_files/server1.key":SIG_RSA_MD5:"data_files/server1.req.md5"

GCM NIST Validation (AES-128,128,0,0,128) #0
gcm_decrypt_and_verify:"d785dafeaa3e966731ef6fc6202262584":"":"d91a46205ee94058b38403997592dd2":"";"128:3b92a17c1b9c3578a68cffe5a5b6245":"";0

GCM NIST Validation (AES-128,128,0,0,128) #1
gcm_decrypt_and_verify:"aeec963833b9098de1ababc853ab74d96":"":4e0ff9d93beff7d732c6f7d6ad606a2d24":"";128:"e9fcedc176df5e87dc61b201101010df1":"";0

GCM NIST Validation (AES-128,128,0,0,128) #2
gcm_decrypt_and_verify:"c4f9b9e3393681da9ccec5e9f687c5c31":"":845e910bc055d8957879f62101d08b4c7":"";128:99fb783c497416e4b6e2a5de7c782057":"FAIL":0

GCM NIST Validation (AES-128,128,0,0,128) #3
gcm_decrypt_and_verify:"2a930f2e09beceacd9919cb76f2ac8d3":"":340d9af44f6370e5f534c653033a785a":"";120:0c1e5e9c8fe5edfd1f114f3503d63":"";0

GCM NIST Validation (AES-128,128,0,0,128) #4
gcm_decrypt_and_verify:"fe71177e02073b1c407b5724e2263a5e":"":83c23d20d2a9d4b8f92da965982e96b18":"";120:43b2ca795420f35f6cb39f5dca47a2":"";0

GCM NIST Validation (AES-128,128,0,0,128) #5
gcm_decrypt_and_verify:"b02392fd7f228888e281e59d1ea15fb":"":2726344ba8912c737e195424e1e6679e":"";120:a10b601ca8053536a2af2cc255d2db6":"";0

GCM NIST Validation (AES-128,128,0,0,112) #0
gcm_decrypt_and_verify:"21895cbacfc16b7b8bf5867e88e0853d4":"":f987ce1005d9bd31d2452fb80957753":"";112:952a7e265830d58a6778d68b9450":"";0
GCM NIST Validation (AES-128,128,0,0,112) #1
gcm_decrypt_and_verify:"9bb9742bf47f68ca6f64963d7c10a97b0":"";"34a85669de64e1cd44731905fd5dbcb5"":"112";"e9b6be928a77b2d28b480ac74c":":0

GCM NIST Validation (AES-128,128,0,0,112) #2
gcm_decrypt_and_verify:"4e9708e4b37e2e1b5feaf4f5ab54e2a6":"1c53a9fdd23919b036d99560619a9939":"112";"6611b50d6fbcfa83047f9f5e1768":":0

GCM NIST Validation (AES-128,128,0,0,104) #0
gcm_decrypt_and_verify:"82fede79db25f00e96eb050a22ce8a":"e9c50b517ab26c89b83c1f0cac50162c":"104";"d0c0ce9db60b77b0e31d05e048":":0

GCM NIST Validation (AES-128,128,0,0,104) #1
gcm_decrypt_and_verify:"1d98566fca5201abb12914311a8bd532":"590aef4b46a9023405d075edab76849":"104";"a1cfd127b341f49eda2ca8305":"FAIL":0

GCM NIST Validation (AES-128,128,0,0,104) #2
gcm_decrypt_and_verify:"3038771820ce1319f02a74b8a7a0e08":"e556d9f07fb69d79a644261e80fac92":"104";"4d2f005d662b6a8787f231c5e1":"FAIL":0

GCM NIST Validation (AES-128,128,0,0,96) #0
gcm_decrypt_and_verify:"0fb7eef50de598d7d85b08d019a30d5a":"a2a2617040116c2c7e4236d2d8278213":"96";"68413e58dfb5f067197ca0":"FAIL":0

GCM NIST Validation (AES-128,128,0,0,96) #1
gcm_decrypt_and_verify:"8cc58b609204215c8ab4908286e56e5c":"fb83ea637279332677b5f68081173e99":"96";"a2a9160d82739a55d8cd419f":"FAIL":0

GCM NIST Validation (AES-128,128,0,0,96) #2
gcm_decrypt_and_verify:"81a5f5d184742a478432963f6477e8f92":"da297cbb53b11d7c379e0566299b4d5a":"96";"200bee49466fda2f2f1f0062":"FAIL":0

GCM NIST Validation (AES-128,128,0,0,64) #0
gcm_decrypt_and_verify:"f604ac66d626959e595cbb7b4128e096":"269d2a49d533c6bb38008711f38e0b39":"64";"468200fa4683e88e":"FAIL":0

GCM NIST Validation (AES-128,128,0,0,64) #1
gcm_decrypt_and_verify:"2e308ba7903e925f768c1d00ff3eb623":"335acd2aa48a47a37cfe21e491f1b141":"64";"4872bf5e2ff5f6":":0

GCM NIST Validation (AES-128,128,0,0,64) #2
gcm_decrypt_and_verify:"1304e2a5a3520454a5109df61a67da7a":"dbe8b452acfc4fa1444c3668e9ee72d26":"64";"83a0d3440200ca95":"FAIL":0

GCM NIST Validation (AES-128,128,0,0,32) #0
gcm_decrypt_and_verify:"ecff1ec2e9a8f2e9cc799f9b9fd7db332":"ddf0b695ae5df2b594fcaae72b7e41c":"32":"2819aefd":":0
GCM NIST Validation (AES-128,128,0,0,32) #1
gcm_decrypt_and_verify:="9ab5c8ca905b5fe5046f1f4a68941144b":="/":"96dd3927a96e16123f2e9d6367d303f":":"32
}:{6e0c53ef":":0

GCM NIST Validation (AES-128,128,0,0,32) #2
gcm_decrypt_and_verify:="b5fc7af605721a9cfe61c1ce6a4b3e22":="/":"6b757d4055823d1035d01077666037d":":"32
}:{e8c09ddd":":0

GCM NIST Validation (AES-128,128,0,1024,128) #0
gcm_decrypt_and_verify:="03c04a6e508a499d00d086a82c9d7b":="/":"ac52f6c1a05030321fa39f8e89dfb5e":":3331
6ca79d10a79f4d03859393e8ee0f9625098d4e0ffe4be1f2871554af6666ab37e7f788edef94b410456f3ce0c513bb25f
1b48d95e4820c9572c1aaab25c8480566002dadc36fd334c1e8e684796a412016d389ac873baea8c3357a99bceef91e
1b985ae5d488a2df7f7b84bf14e0c2dc715e818f4e24276057cf668172":":"756292d8b4653887edef51679b161812":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,128) #1
gcm_decrypt_and_verify:="b228d3d15219e9a9ad5651fce02e8374d":="/":"5c7eaafaead029c3fe3cf835f5e758d0":":8c35d
d805c0868eb9d446f081bd4cb8c46c6d57842dc3e729ba90592e2bebf17fe7184445b02f8180180a944486d662a127d01
d3b7f42679052cede73ce533129af8d13957415c5495142157d6ece8a68aa977e565f62fed98e468e42522767656ce5036
9471060381b752dd5e777c97677a4caddfa39e518e30a789e793b07ea21":":a4ddef1ab93c84937c3bbc3ad5ad32573818
d":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,128) #2
gcm_decrypt_and_verify:="776a8cbabded5577fe660a60f920b536":="/":"5b7bf7b101408e4520408add87b97705e9":":44631cf94d4a07416b0defb4e2b42071e3e2be455029cdd72beb36180e3eda31a7d658eb2be4e3a260af374769f4393ee1668c
550067ede2dece94e6ee72be260858d03f81e485275c5ae6696b0803a85c5d3e32804fa3d3a213c3afaf6689046e25ee
b309be160868f94fd31cc664b83a468a5165f5625f210f9a86bf7ddab":":a5347d419d3b587240651bcd5230264f":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,128) #0
gcm_decrypt_and_verify:="20abeafa25fc4ea7d0592cb3e9b4df5e":="/":"3aba79a95c5aa664856b4d552c7a8d3":":98cfe
caa9eb9a7c3b17e6b5f80d8a4bf7a9f4af5e01b74ace15ee6af14633205aefe3b2fbb7b9718e12322ea27352056a6037
467286a16313614a761619400f2bf679045ac2e0b2bc2e1d4118fab4a2b7c8727beda4e9bf50df41855155d3a5e26f7
639c8ad5a38ebc5906a44be062f020c53862678ae36fa3dc3e02c98":":2a67ad1741a520fe09a304f9075f3":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,128) #1
gcm_decrypt_and_verify:="2bc73faba942ff105823b5d5cc6f6befbeb1":="/":"902c3e3b69b1ef8935d7281ff74ece3":":4adecc
04aca0325aa6004d9f9519daa4f7c163229a75819bf0df7d8e23319f030e61da8e8eadabff4e2a7cb36b6dbcad249e801
cab31b6b583448b7172111226ab27816e1aaa4f624c6ad53409408b008c057e0b8b1215cc3ddabdbb8f19154bba8b5
4f8b00763a530ad5055d265778cd308d0b3d5b6a329bd5b5a2d268":":ebdd7c8e87fe733138a433543542d":":F

GCM NIST Validation (AES-128,128,0,1024,128) #2
gcm_decrypt_and_verify:="356a4e245868243d61756cabe86da88":":"b442f2e6d45a17144c258fd59fe5b3":":12c
cce3cf6047b0a1579c5060c2134850724a6c9da3a70024d465fd23b8052fbd3e4a34a7dbadad6499606ace858abbb6b
29726d07ed24ffae2d33aadf3c6e66ebb87f57e689f85128be19c9d38362fad1f8096e391f75b576fb213d394ceef6f091fc
5488d9aa152be69475b9167ab6dd4df93bbcb7bca316ec952eb19c6":":ed26080dcb670590613d97d7c47e4f":"F
GCM NIST Validation (AES-128,128,0,1024,104) #0
gcm_decrypt_and_verify:"895323dbd602d754f4c2874b42ce6b0":"":"8f17608ac8def0999c971dec7942387e":"ebc75788377c0b264818a697c19ec92c29f1c7ce6eb65f5092d238fa4614bce3500ce49d054ed628ff6262460679a15b0ce3669d9289bbd217e5012279e0f0f2bce5d51f16e193596ebcbb27727f5e0bdc44289058479476e4893600ce8b2cf16b104ce8b752b915fed61d6b54ff73ce43950f6db8107b1ce7d1dce":"04:14724ff1d2c57295eb733e9cad":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,104) #2
gcm_decrypt_and_verify:"30da555559eb11cf7e0ef9ff99e96d7":"":"7977927bf12335f281ee94a870f90a0b":"e735d556e15ace787973016c8e999db753ed14d4e4ada1d7e6ead702ea5dc337433a82b454afff2f385fd6f655574425571e079ca759b6235f877ed11618ff212baf865a22b087b6b35fc1acfd24d92fd41607bb7382f2ced703757088d497b16b32de80e1256c73a49b833566bfc77ce539506db1807b1ce7d1dce":"04:14724ff1d2c57295eb733e9cad":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,96) #0
gcm_decrypt_and_verify:"ed2ac74af896ce5190c271cfa6af2f2d":"":"0226e2d8da47bad1f78b9a797f27":"8f11353ea476ff923013e6e7376ff92d3101a1c477ec07ada372a8430d5659c376075ecfe2e318cfd4944d3bf132e76da5524045028c97e904363b44c4d189a4b64237ac7692dd03ce0751ce9ff04d0fdd8a976704cd7df3441a52328bb4ac3974b9402db45663f7b6f24947db61818ff9769ee27af84e949af8239b9fb":"96:db8af7a0d548cf54d9457c73":"0

GCM NIST Validation (AES-128,128,0,1024,96) #1
gcm_decrypt_and_verify:"20255b73fe5f8be52f838d873173959d8":"":"02a048764f489a9ed1147ee922395bfb":"9b46
GCM NIST Validation (AES-128,128,1024,1024,128) #0
gcm_decrypt_and_verify:"69eedf3777e594c03e094e2ce4e7c69e":"51149e9893c96feecce37f304ca42f52aa16ebb7c6aa
dfbb62ad55739c3a138835ca0703dad3c437c3cf6435b668868a7a1056931959316ed3ab956f64c4e074797c677f9d4
d800000c351333c3e4008b7e0fe19a0fd173e3fa2ae1313f27516952620fd2d9ab9daca478eb993c9d70db7503b32364d
e3a8309d04966c5f823bc4:128";"3330638a809a35560d6ce0943e42882e:0":"de3e32b47c5e0f8592028f899193f1b95eb7c9bb381f2d576be8c788e04faba3036999b991f26313dc14956105cd2817aad2b19c128f3b2951e9c0b354490fa5b6aceaa0653aa3c9b98772eb8afa06a10954bf12d3ae69bd01a139f988f8aa4b6b16864e3fa3df5805f873a2d443a6a2022920c24814e14598f86a9b9a09":"128":"d5e3606e120e06d4692650000771db9":"208e632123bf85c6ef2e55a4bf31c3bbfb0d1f7773423f2e6634867cf79beede39b36910c3c78dd00c30707a01a1226226d0d024d25dcd8a4e620090ca5f42524121e864673f13630aaf1e9da0e585d9615156080418c1c41ff2bb00c7ec8ff209c73023e6df89b32871de637b3d6a2e277d14a033f30440387b77:0"

GCM NIST Validation (AES-128,128,1024,1024,128) #1

gcm_decrypt_and_verify:"45cc35131eeff09b3b09f19317036":"5dcd87d525cead035c19714ae1b1e538eb66a048902724553150ada9297410fba30c1155407c10a8b9b59a7ca62a499225dac003ee78926c690ff4cedba10e8a79bda1c4478162af0e3d2e5f0f5bf0f0948c3c7429fb94828bdcd972d1333c2ce72963eef0565ec2728bab007e65a342b01d1d2041b1a1e27f1699e8c02d23cedeaeac5e43858a0d4d4c2e4e848a:6e210914e4ad1d8d56f5a907f7c7c417d7d0d2f2434e3cb9db7267cdf9405f6978dbf343640e488f8c704ed6a2e2d0a548d915729d98a22b1f636a70545920a97f15a517977e0329e6ac696749be940eabfc6d8b0b9bbd6b87657b3a76959da5f53a7384257f20e06beed8512d03750cc246ee6c1e610921cf92603d79":"128":"266a9595fced001a51676b44b4467d179:128":"FAIL":0"

GCM NIST Validation (AES-128,128,1024,1024,128) #2

gcm_decrypt_and_verify:"9edb5231ca4136b4d4e4ae22b8858f9":"493df801c57f8bb5915957129d3f3c4518f0599fe8533b2b44733641d4f560c12444cf50e680b80e012f6a6d42f979b970b26cd8e80d1d8b888a9e55a9794623e60494e047f1d246672942661e56533022522082fe0a0ad7706a02a0e260829c1a7a5606f3c1e2830292a418b28f5d9dc":"342e399dabe7e922b2695f95894e032ac:45e7c50932ac1544deef8d53080f33ea278690529720a867f43eacc68b53d5f36adece4e870c4ed6a2ed2e4a058d9d15729d98a22b1f636a70545920a97f15a517977e0329e6ac696749be940eabfc6d8b0b9bbd6b87657b3a76959a5f53a7384257f20e06beed8512d03750cc246ee6c1e610921cf92603d79":"128":"266a9595fced001a51676b44b4467d179:128":"FAIL":0"
GCM NIST Validation (AES-128,128,0,0,64) #0
gcm_decrypt_and_verify:"0dd756d49fd25380c4026ea03cafc2da":"":"6af6f7e39b0d730ea1670e13d16c12c28":":64:
"872ef05a28da5ea1":"":0

GCM NIST Validation (AES-128,128,0,0,64) #1
gcm_decrypt_and_verify:"bd8a834b288bd7578b6c6ab36f5d068":"":"aa77de0af5fa4dd1ed2ada5cb94813a0":":64:
"c5e09483755f26b":"":0

GCM NIST Validation (AES-128,128,0,0,64) #2
gcm_decrypt_and_verify:"020d280bd06939bb5e6edc6f63d9ec":":09a6af0e57598452719d6f3b6fe5a9":":64:
"05d6c56ba601e85b":"FAIL":0

GCM NIST Validation (AES-128,128,0,0,32) #0
gcm_decrypt_and_verify:"e47f41a27a2722df293c1431baacd0f90":":227c036fca03171a890806b9fa0c250d":":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:"5b4b7688588125349fb66004a30d5d4":":b4ae363ed529d8927c051ef21a2d9d":":32:
"6a920617":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,128) #0
gcm_decrypt_and_verify:"c8b6ec5b8e21c32f360ae4e4f3b75d5cd":":3d1036bf0000e6f1b77a799f2ef32dec":"1c2f2b
6b8e86a7b4b5b3c5e0502ab27c3413658d478b44f20bf8ed67d6fe3b85a3a80f66d3e757680f5d66ec6eac2d11e02f
e12de5390722d8c82f812d140510f51a9716c860d4d545bca6efb8aa4797e6e7406a04db5d823766c0f011ebc28
9a8ed44468a75e8bdc12f2d5b5c364fa9877886e30404593df34":128:"a49725014c214ef7cc2d28b9b2b53d7a":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,128) #1
gcm_decrypt_and_verify:"63c3f8150074eae3f3e3975df84f849":":07999d4152f73c1604b4610cfe7171fe1":"cb82
4e5f904c9ccccf6723f7e621ee1b4d7ed98480f9e806a48b84e26a733772ef88f7e91805751ddab2b462b89f6e6c
7cf873f65031f3c357d5f57b0b7c391c39e78ad1ed94be236ca0a316bce11bc33c5d071dfc58abb9e198b9e42f7b3d6
e89d46f9784b388a666a1f773b09f6a665d55a17e89932fa669c44":128:"c53d01e53ee4a6ea106ea4a66538265e":":0

GCM NIST Validation (AES-128,128,0,1024,128) #2
gcm_decrypt_and_verify:"63c3f8150074eae3f3e3975df84f849":":07999d4152f73c1604b4610cfe7171fe1":"cb82
4e5f904c9ccccf6723f7e621ee1b4d7ed98480f9e806a48b84e26a733772ef88f7e91805751ddab2b462b89f6e6c
7cf873f65031f3c357d5f57b0b7c391c39e78ad1ed94be236ca0a316bce11bc33c5d071dfc58abb9e198b9e42f7b3d6
e89d46f9784b388a666a1f773b09f6a665d55a17e89932fa669c44":128:"c53d01e53ee4a6ea106ea4a66538265e":":0

GCM NIST Validation (AES-128,128,0,1024,120) #0
gcm_decrypt_and_verify:"a0c888b191ce6e8e4a3941f7960b7eae5":":e2a899961c332c8156858c553351fa519":":308
bf10570a4f5d63291f3f641dae0a6d07804621c01a63bb8e4e5bdff8841d2f2b11e18cb2170805ef4acac7f804d64e0f
ee40f731a1704907f3b77788c18ccf53b224ec3046a67664a9a3481d238b6dddec0e0df3243f94ea9663a5c51ec38
8cecf33744a8159bf4b654dfdb5092718bf926c824be31197f07f276bf5":128:"9260437407aff33f8b677326cbb94fc":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,120) #2
gcm_decrypt_and_verify:"e818dfaf0885a09f65ef78712f5e6609":":ca279284723530fdd68ae880e0ce775c":":2a56
GCM NIST Validation (AES-128,128,0,1024,120) #1

gcm_decrypt_and_verify:"2354c6b66afa883e7ce91facaa98f188b":"":"604f2730c756c8e39a5257093bbced5b":"
959b4b099c6ce9120b3d72d09001715539999ee10bd83a4546fc6ode9057ef4bf47ada07bd07e7da81116f6b0fca09175d2e64d1263cbe5e1ada5ecb85d763807db2b3b6ca3f315d48df00aae058d43e4eb6f7e3a37f11312341453d0dea7f510
94863486426ff170629a59a3c5d8c5c5c5eb6c6a5881918fe233eb0":"120":"35889a9769897d3a285459bbd10a":"":0

GCM NIST Validation (AES-128,128,0,1024,120) #2
gcm_decrypt_and_verify:"b0a4f8e6aabb6b6557b9c2bd140b805f":"":"d210d6502a5221ac1274a9c7f5a81725":"d725311ca10eb4b4a2466d19c5e72dc34fcff3f5eb25d294a9b78d72205790ca4b1275bd93a506c27a5587a45659bca07c11197448f683a03465153ffdf7357bd134b479674a8b596f0596496fe2090f623fde4d730c5283db8b72d8ba25d4fd9b34f384ed32676a56bb8a03347e47379702654508cdd0a121ff503516e":"":0

GCM NIST Validation (AES-128,128,0,1024,112) #0

gcm_decrypt_and_verify:"a05fe482fe164b2eca77f6e3e7377b39d8":"":"145327bcccc3fcb93afbb4f17be6e":"eaf62e935eb1bf127d40408dbd6397402546b14e8eece1966f4198296b8b8ee2c3632d7216905ca5a816996e34040b586ecd27sevena116c1266511f9eff1a32b03544204078f8e42ca63cf2d612a971a7fab4f65d1bd9a8e4d04a07222df2c592beaacc403377380751edc6d8aa929da5582540678935b8b7e7bba68":"":112:"3900bde9fa9ae2cbeee54d04f422":"":0

GCM NIST Validation (AES-128,128,0,1024,112) #1
gcm_decrypt_and_verify:"dacabf8f1e6ba163f6f091d13ed04d":"":"b9ece72b4d0dcb0989bcad2e87ff8aaee":"7d6ce2189d8af963507e352e058d1ff4ab988c2f17076158871196f3b780840158d56b460901a028081034ed36ef6e527d7f4e4a3ad35f78e0cc726b528875f710ff866e5e11b4689c346a098e123bebb2f253362cb6b829b7c3b285a6881fb976aa730abb76775027fecc7fd920a6cb86956a4509ea81d7c413a95":"":120:"8988fca8383c8f1b8feeface4f60":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,104) #0

gcm_decrypt_and_verify:"969244c74444f3bf3b193b28f8e98e96de":"":"49b2845a1a1a18f7a66eb8f78c05ac029":"1414a07e86b8dd1b41eff4e1f4ab42e1c95e159058b747e31e30072a1eb788bc1bc7be7920363a394eabeb60881317c0a4655199bb6703ed3347507028ab16a8977683112c7e81f3ac3ace23559af0a1680a7fd4a2e258145eb80c90f0eacb2f5f6d26bea3d11e1a956af3630b80f3d22bf35592b4704f7c464b0b8b06dd7f8":"112:"a291cc7523785f037fe6206fd8a96":"":0

GCM NIST Validation (AES-128,128,0,1024,104) #1
gcm_decrypt_and_verify:"525abe490c8434802b69439c59a5290":"":"14179f050131666451c41c7a0fd0c":"be440db6d3f81fe4b67605a7b2805ec1d5fe7e1b0b4d7a45d0ef192af19a2b08d72fd1863b32b7ed78796c3488e025178b3b19226285b8b29f5377e0cb638b500d3db424f5172d4caac4500eb54dbd748760205ced109053945087ce1e5bf9ea74355fc06e96b0cbf25a9804d3f8c623ff130abc4bc2d8d116b8366":"104:"0387e95f7906ca5ce7f35f1":"":0

GCM NIST Validation (AES-128,128,0,1024,104) #2
gcm_decrypt_and_verify:"5164e4e025659d9e83f5c8156516b182":"":"614387c743d0974e9cca497f13038c02":"60c5d062ade2c52c2de68b734dd3e58ce474a56dc4e97f8d8a2337800510134cb2a70a0d50192732a3fe1febc725010ec02e5aee630cd2b792963f8a242286ab047b934a261927311b40f593fbdf661427921147ace7613d95ee86e16326ee671ced097e8fb87a78753d785de34e03a182232786079c6be00182e41c9e":"104:"77edef3a27f9386f85bc4a801":""
GCM NIST Validation (AES-128,128,0,1024,96) #2
gcm_decrypt_and_verify: "08566ca7310302dfb84d76ca0525ba20": "7275866ca7310302dfb84d76ca0525ba20": "5f20ec9c35c08a71fe8a002dfb84d76ca0525ba20": "5d84e3273eb8d81c7ec342b3f311848e35491bf1b454b359c8429220216edfd8826be94e1919409a128cdec8125a59f41691c9421fe3d6bb87337bf2355b0dd074eece165eb70e26eb53af2e5cb5d84dfae6bab557805f7b6e61c1b76137517bce5e84bf5987dc49013831d78bd497cc49ed7dca2b75e7a96bd7ae8ce8e10": "104:873f307cf05252a44dc76f8155": "0"  
GCM NIST Validation (AES-128,128,0,1024,96) #0
gcm_decrypt_and_verify: "dfb54d69e6383fa911bf5b4fa218e109": "7275866ca7310302dfb84d76ca0525ba20": "5f20ec9c35c08a71fe8a002dfb84d76ca0525ba20": "5d84e3273eb8d81c7ec342b3f311848e35491bf1b454b359c8429220216edfd8826be94e1919409a128cdec8125a59f41691c9421fe3d6bb87337bf2355b0dd074eece165eb70e26eb53af2e5cb5d84dfae6bab557805f7b6e61c1b76137517bce5e84bf5987dc49013831d78bd497cc49ed7dca2b75e7a96bd7ae8ce8e10": "104:873f307cf05252a44dc76f8155": "0"  
GCM NIST Validation (AES-128,128,0,1024,64) #0
gcm_decrypt_and_verify: "586114f3b1dc087e1b2739b28c592dfe": "7275866ca7310302dfb84d76ca0525ba20": "5f20ec9c35c08a71fe8a002dfb84d76ca0525ba20": "5d84e3273eb8d81c7ec342b3f311848e35491bf1b454b359c8429220216edfd8826be94e1919409a128cdec8125a59f41691c9421fe3d6bb87337bf2355b0dd074eece165eb70e26eb53af2e5cb5d84dfae6bab557805f7b6e61c1b76137517bce5e84bf5987dc49013831d78bd497cc49ed7dca2b75e7a96bd7ae8ce8e10": "104:873f307cf05252a44dc76f8155": "0"  
GCM NIST Validation (AES-128,128,0,1024,32) #0
gcm_decrypt_and_verify: "24ece168c2971cfb2040ea206dc9e29d": "7275866ca7310302dfb84d76ca0525ba20": "5f20ec9c35c08a71fe8a002dfb84d76ca0525ba20": "5d84e3273eb8d81c7ec342b3f311848e35491bf1b454b359c8429220216edfd8826be94e1919409a128cdec8125a59f41691c9421fe3d6bb87337bf2355b0dd074eece165eb70e26eb53af2e5cb5d84dfae6bab557805f7b6e61c1b76137517bce5e84bf5987dc49013831d78bd497cc49ed7dca2b75e7a96bd7ae8ce8e10": "104:873f307cf05252a44dc76f8155": "0"  
GCM NIST Validation (AES-128,128,0,1024,16) #0
gcm_decrypt_and_verify: "96ce3a095a91e79dd91d616f1f02ddcd": "7275866ca7310302dfb84d76ca0525ba20": "5f20ec9c35c08a71fe8a002dfb84d76ca0525ba20": "5d84e3273eb8d81c7ec342b3f311848e35491bf1b454b359c8429220216edfd8826be94e1919409a128cdec8125a59f41691c9421fe3d6bb87337bf2355b0dd074eece165eb70e26eb53af2e5cb5d84dfae6bab557805f7b6e61c1b76137517bce5e84bf5987dc49013831d78bd497cc49ed7dca2b75e7a96bd7ae8ce8e10": "104:873f307cf05252a44dc76f8155": "0"  
GCM NIST Validation (AES-128,128,0,1024,8) #0
gcm_decrypt_and_verify: "96ce3a095a91e79dd91d616f1f02ddcd": "7275866ca7310302dfb84d76ca0525ba20": "5f20ec9c35c08a71fe8a002dfb84d76ca0525ba20": "5d84e3273eb8d81c7ec342b3f311848e35491bf1b454b359c8429220216edfd8826be94e1919409a128cdec8125a59f41691c9421fe3d6bb87337bf2355b0dd074eece165eb70e26eb53af2e5cb5d84dfae6bab557805f7b6e61c1b76137517bce5e84bf5987dc49013831d78bd497cc49ed7dca2b75e7a96bd7ae8ce8e10": "104:873f307cf05252a44dc76f8155": "0"  
GCM NIST Validation (AES-128,128,0,1024,4) #0
gcm_decrypt_and_verify: "96ce3a095a91e79dd91d616f1f02ddcd": "7275866ca7310302dfb84d76ca0525ba20": "5f20ec9c35c08a71fe8a002dfb84d76ca0525ba20": "5d84e3273eb8d81c7ec342b3f311848e35491bf1b454b359c8429220216edfd8826be94e1919409a128cdec8125a59f41691c9421fe3d6bb87337bf2355b0dd074eece165eb70e26eb53af2e5cb5d84dfae6bab557805f7b6e61c1b76137517bce5e84bf5987dc49013831d78bd497cc49ed7dca2b75e7a96bd7ae8ce8e10": "104:873f307cf05252a44dc76f8155": "0"  
GCM NIST Validation (AES-128,128,0,1024,2) #0
gcm_decrypt_and_verify: "b5192d3693b6fa061c6056e312135f5f4f426895fa7e30f7675d2c21d08f6e5a4e5e376b94deef7537b985d324864e9ff6ab6e23aa1006720f98c958912b604a6d0e39798887c07eb3ceaaaf78f": "32:02b1a523": "FAIL":0
GCM NIST Validation (AES-128,128,0,1024,32) #1
gcm_decrypt_and_verify:"d3c3cf99f36740a01996e1ce13c29955c":"af900ac348082ff3d2e0ab886079516":"2ddd0e9c99661f0757f04aa79af1fa24ad88ef5da6a89e717af0c1fb42ca9b75769500b7549d48847ae49950dcaeb70b1569d290c0f422161737b43509c17a4e1c34ceda183993b37a0a380762993a75680c8067794e787461733d5c0d921cd50de4b548c1589e1423cdadbad42161aaedaa2310f3c6d5c722d9ac6e96d":"fad3a6ff":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,32) #2
gcm_decrypt_and_verify:"5f1e5bd45ee8bb2078c67b7bbd73f0510f2f18":"8846424a19f45de85585666ebe5b65d7f":"e9689477e49136eb7309f176f6e139d354ef4dfe8403a23af79211ef5f921977c6f0a1de724f489a3d2d2f432bca2074f9d1b4f5396c6a5004b0806cb7c6dafa751b56abflee9ee43f3c9be03d6f722e0d12320441400c5ac058af6575c2b7f1669b0de21761dccc9a9f0c513768bdf1f532692626ce35078a2e012f5d930647":"0f6c15da":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,32) #0
gcm_decrypt_and_verify:"3997050377cf9b8020c438d973661688":"b02f0dd373e42c658e1db2dd76a432e0eb2bf66e630c8aa0d84f15b3790b175d9e919b3245ace75818274c771c06afae225e48f80023263712336e805ab064649eb29c9ce529ab82b603c32d4e6ee99ac9a67d9eae66c6623c002a224a898e74f6ab6d6d92112367ca7ffe828787c5b39e7012ba28285d3612a3f3d4180808a8":"c95e84c263b3df5d16de6e7e616cf3fb":"b353b3c6ed59cc6b9dcb497a3f284a":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,32) #1
gcm_decrypt_and_verify:"c58583f6479d9bce9f1bf6addeee6e59":"564a9f700c1bcf895e4f4a6264f73b34956896a15e6127e7560d7e43f0d8b902de4e5b7a9a3884fa613d913d139f0967d7132bdaed146dd8f17147ed1964ec2bde31cf4133d3bcb31b03f37b1d2147c49e8850688a95eb3e249033aa044a0a1b73fe789e4150e75dcd2bed2e72070db0e6399d5e388ace652944ac":"ceee844b83d506fl3ecce227a879978476":"361fc2896deee7ee98eedee7eebe656b60e":"92c7eb3df087d8cbe384f6b181f0b3f3afa2e32818e9f6c0f8a8238239f234399b0d302516f0ab6579811bc23a42345ba6d6e4ff88cb5b5add9020f77448122771a6230a3e13739e92d015f003638238401e58537b7cfab5a8edac19721f41d46948987d1b1bd9485a676276bb3b5cb246a1d7530ad017bff036ac7ad95":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,32) #2
gcm_decrypt_and_verify:"0bc2de877e881a1e52068105699468":"a1a6369a45e8e2846e42d5492d0d140a94f9633432782dbdf094f1444atl060ac07d229f014ad1bc23e3c63ed8189ca743efbe16624981636e35a6403f4111dcd3260e259bca0a3cdd7660ed985e1b77f713a3b3232a59348bb5e46f8368ce6e6e6b7f5933196fa973e7413e4b142b9099c2e562bb4255ed":"05f0c3ab2e8e8026bb0a23719344bb7f":"46bab9f9c2bde878b86ca0ed4d73536":"FAIL":0

GCM NIST Validation (AES-128,128,0,1024,120,32) #0
gcm_decrypt_and_verify:"e14f5ba5d1eb5e20412240a5d75b9f9":"9a85f6da19ce923f093a0c25b0c52f5d9534828a7f7c6787d2230700a4e210c4592242ecf02704070307a5bb137780d1e2013a19396ab43ff6a295b63fdcf323456d149758f9a2b3f731f4186d2ea6368eb24d5067b69c63d2968e066d5686ce73275affa05f7c7bef51303e4cb224ed546ac417df0efac9f5e3f716ec58e939c":"d778f11e66fb87c60adee26f6888":"bdeee05e4e928c808b660f3de95634":"ad5bb9ace0c0c7c07df2900af37a9028994717eaa4a0a1ad5878f8756d7378f6169be79a4e253f95b15d52895a05b9e9ecf9a916d35afacdb8af1e0704dad4a38e234af4efc1beef0a0b522328af5b5df5e5e443fe66e06e38da85e157a88a9ef82372003a04c6b9a4e6309d61806f0abb27772432186c1701":"00

GCM NIST Validation (AES-128,128,0,1024,120,32) #1
gcm_decrypt_and_verify:"9a64579f3601b0022d357b601cd786ab":"88b1f4b8e818b8a9d7abc073cb2751e209a6bab912e15cd090402f9a57a660b9ff08b1b34f5947232205b579e70d70a9ecb54520ce3491e52965be643f729516fcb018beedd6a7d66d040a3f392c7729c566ce1e9f964c40b6d1b291c9b6e3df1ae18a40a1a302f3775697c71edbb8f5a8
There is no text content that can be discerned from the image provided.
GCM NIST Validation (AES-128,128,1024,1024,128) #1
gcm_decrypt_and_verify:"58748bb204cc7bdafdfbf739b6c19a3e":"b72902e9ebbb72a866be539b19a52fd9af00a4de081d90c0d8ad580ebbb950177a03df40ae9b43e3a07d7f154665266d67544e5a5551805b24624f39565dc519fc99182c2d54bd626cf7f6c5ebf1503589b706d1a11b6c70a76a7709789dbfc0ef726bd360f9f2374266068e757c8443de9308a171e862359aa1ebf97194a5":"39ac2987c3e88e127a4dd98d182fe43d":"81f6f80fe4d1da31b3be4ae3f9dfe1c8d1cb4f1ecf1a37297591af0a466d8826649a46c3b50c045e8a3849ff0ecd0b042ea4356ed9d59107997a2d545b9f490078b8a7f3b60f7bf279ff8ce560248296a17240ff1b06433f143fbbac7292f83ea4c2d1393b58d54811ff1526386fada2f6dd8a8a3ce9c030d9d4264c8e079592a36178925991ef0f":"767a04d7e4ebe7db057f15ed10fd":"be561ac15e3cfd6242a2d4a97c2769c1940dbdb50e4a993d636efe9c7f1963fb9047a7621b9576a9688f310bc417e34d40397652a95af710cc1bc19796a4376986f2d8ea4cb0e7ba48e43c37a41a3662f2483c821a182f3f17416ce4f32e9de9bdc2e1a2f3ed32eb8137835a2329a241219172cfe87b2ebef20303cb29":"76eb990a1e0105f8088fan30000000a0e40"32":"0a95f05e2de658257b5b0f2c1b310b20006dcafc3e941478862df9737ac8e2ebcb3d41dbd4a1878e2a4bf4d51a10a9b743aca3939eeafa10de84590a7a221c5429b3dec3935f1031ca0ce3939fd8e05657c3db5b9e9cd9269e0042ade87b32e2ce7c58d6b20a2af07c79e42e5ada43b878ab00f481c20cacc1b55145d4ce9":"PASS":0

GCM NIST Validation (AES-128,128,1024,1024,120) #0
gcm_decrypt_and_verify:"286df5080f38e853857181b82ebd2b":"551359289977131360622eda1820ec815aa22112504b1e9bb6e273aca6ea2594bd652627b68163ebd6e40a4a114d6b162fab9a11f16968c1476dbf77151b1f3f98ca0d1d0ca6b8e81652b0e89fadb0c66c604284eefb8e0c4f046cab0d0f663423bb6e62d6e2d62cb3249a28a642e2c9e5ff401e9c7615e8c3e69166e5ca":"da1410d4dc6456d4dab19069e86eb35":"5d30a04562a605e982ebd8fae6cc27e5614258497f0f05f049859592c1eb2d4e6839f7973bf61772601fd0a506c8ef3ade5a5f2b6f63ed49e989dd30ad1a25244190f10350fd0ff52d84a20d1b4da42138d5c4ea2bf263c6f2e27c3e7255f1f359d0d00b1b350d7a04965fa03270032520197e85eb416eb2b826":"d09d34094d7f2043d4de685010ce3":"FAIL":0

GCM NIST Validation (AES-128,128,128,1024,128) #1
gcm_decrypt_and_verify:"7726ae113a096769b657f973ea6d25dd":"90636012ba8c51d6f86dfd3b3cabc3f0aefb3e2762f62e779131880458b6612e27d9a7b9d3e4e6e4e832e497af679db52a4e5c8adaba20f568ff9c4ace55be321f651a4a3284768a25d86b1c7da5377622f3e90ed4cd7b4d57175af4d0a5b181d0475f699202ee4406b0bcfd4fa7f22d0d7443d363232314658496":"29900022697585d200dd20a2a79c15a":"761663c3c6bf1d12b2c55642b2458b2293b153e7f57f9af3958891caec3e3e4beff74603262965a8d9893046aeb2a993090a3e206a10a33b7a69c9d271e934ca7e5daeb483f826c2ed788fdd167a627864c8b85f94df777b59e90fcb78240086000af41ea4754b7b70e607a59f896f2304e281a89b5f5e7b040f8bb9b49b7df0c0b243848cf3f6dfece3ebbb14fd0d1fd84a3ec6cd28a5d7ad9f28cd2883a35eb49a5172339e6b1e8e7e33350bd69f59ac7d0":0

GCM NIST Validation (AES-128,128,128,128,128) #2
gcm_decrypt_and_verify:"73a9eeda721c6f292e6b399e2647f8a6":"215fc7e52abe4c751ca2f79a5cbde9ab8b44bd4
GCM NIST Validation (AES-128,128,1024,1024,96) #0
gcm_decrypt_and_verify:"04036d2f2573c65f8f364a9553595999049af5bf3d813255b3daa22786b033563d3ef060a5f7f90f866047be15e19535893d97e7098265297396865ebe383be8547e8ec09746a6b55dc5147cd
adef2e2ad969669e84a43f642ca18c8aabe2199489557b2b5484bf3f1e4e31fda1d73e910077a997918a310b11952
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30a9e10520cb0d0cb2a4ed338409a2e4c849fa2070a793ce3c0e0a84b140651b4527647f85d8576d0d5f5115068b3
3a369096108023eabe65:5e7118f812b789fa9baddbae1:7829ebc2034d592b899dca32b3d37b78336fd3793b3c
4f0113c8f84f59aeca56f534d1bf8307a6b5182b6f8adce22b76a64b12e290559988756d318d96c5e64cb49bd138eb
4df38a2d56640d67d490d03acc1ed32d3f377eb1907bd600f217d4507_e0980190251d59c0d4c50e1ce4f159975a35
2a36e3a62cbd28c1611a:0"

GCM NIST Validation (AES-128,128,1024,1024,96) #1
gcm_decrypt_and_verify:"04036d2f2573c65f8f364a955359599049af5bf3d813255b3daa22786b033563d3ef060a5f7f90f866047be15e19535893d97e7098265297396865ebe383be8547e8ec09746a6b55dc5147cd
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30a9e10520cb0d0cb2a4ed338409a2e4c849fa2070a793ce3c0e0a84b140651b4527647f85d8576d0d5f5115068b3
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4f0113c8f84f59aeca56f534d1bf8307a6b5182b6f8adce22b76a64b12e290559988756d318d96c5e64cb49bd138eb
4df38a2d56640d67d490d03acc1ed32d3f377eb1907bd600f217d4507_e0980190251d59c0d4c50e1ce4f159975a35
2a36e3a62cbd28c1611a:0"

GCM NIST Validation (AES-128,128,1024,1024,96) #2
gcm_decrypt_and_verify:"04036d2f2573c65f8f364a955359599049af5bf3d813255b3daa22786b033563d3ef060a5f7f90f866047be15e19535893d97e7098265297396865ebe383be8547e8ec09746a6b55dc5147cd
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dead5479b14e262cf0e383ce131407d99f9df962f4ce6b:2140738749a9f20e20d55f0d7dc2f6b1e2b276e4a8b13a72b83b490
30a9e10520cb0d0cb2a4ed338409a2e4c849fa2070a793ce3c0e0a84b140651b4527647f85d8576d0d5f5115068b3
3a369096108023eabe65:5e7118f812b789fa9baddbae1:7829ebc2034d592b899dca32b3d37b78336fd3793b3c
4f0113c8f84f59aeca56f534d1bf8307a6b5182b6f8adce22b76a64b12e290559988756d318d96c5e64cb49bd138eb
4df38a2d56640d67d490d03acc1ed32d3f377eb1907bd600f217d4507_e0980190251d59c0d4c50e1ce4f159975a35
2a36e3a62cbd28c1611a:0"
f344a6b74a873ba0fd8d2d7b961fd5e676557d6aee0f7978e5733d7d8b43d459b77756037cd64d104d49966eb3a2a80d0 fd4d5e4f45dcb8713f4e47564edc9f925c5f6c120c477f6d3f59b047a3d5ef3d2b8c9052b321b9b9129e5c9a095d8de563 601b34608456f58d72212f2d":32:"fe0c8cbe":"95c169721ea007e3f292e4ec7562a426d9b9aa7d374fd82e1e48d1eaca93 d891d5ff9ucf5e3bd82e713ac627141e26a86b65492b0affab948401cc3c390d6eea9d7b78c4fcb080b0aa9222e4d51bf2 01cfcfd9328995831435e065d92ad37ee41c7c4366cc1ee15c07fc0470608866aeaa96997772ecf9269345d02efe0f52f5 0":0

GCM NIST Validation (AES-128,128,1024,1024,32) #1
gcm_decrypt_and_verify:"db68a96e216b00d9495f14b878487e03":5634196a32d4c6ba7a2f1874a1e0f86287d294209 0e00cc6a82bd5ca4f0136a27ddf52a4771713ce4a0f46a6cb640a7205cee4ac9c20a380d533e1e968089ea5740c0fcbfa 51f124240080e899dc7b3396b224cafaed53b3ae06048799833e6ed63053d48665f276890772bf8f4b9505e4ebdd04c 04997048ce3c19336133ea4":"8a1a72e7bb740ce37ea4619e3007f8ae":1b4f737190a59a4ff4f1d3438798d1829301204d7 aac2a1be7b5ea3e55567e95e2ace32b9e324488dd3ab8ce7f29d4e9a4f4b1a8a97774871ee825e2c17700128d3c55908 d3b684af505f0db8b83149f1f759c21d5b5e496d43e8aae803dfd81600464ed484749bb993f8942243bd7d55c756 b454466ff91d690919ed5e83":32:"9251d3e3":0c6b33e5e5c6bb4b399d85d09cbeeb3ddaa63fa50897936531399829 6e8d54c254285e8944768d12096d4a3c2b42ffaf26303cee2da9b435ec52908fca638ed7f4898fe0f761f96038ff7dfecc c65bb841c34357b8d3d79d79ee82e911602e2cd555b3a227242ada86d610d37e447776295b4124b12903ad2cde5 1706":0

GCM NIST Validation (AES-128,128,1024,1024,32) #2
gcm_decrypt_and_verify:"659b9e729d12f68b73fc2f7260ab11":"fd0732a382242c3f16f58de3a7f333da2ed6b6ee9 2b469544a891966dd4f8f6b64a711a9793f1ef6a90e49765eacaaccdd8cc438c2b57c51902d27a82ee4f2f24925a864a9513a7 4e734ddbf77204a99ac0060ffcbaceee48e8509bb9c3d6e1b1592889e48801265715e6e4355a45357cef671caaf2f1c 3071bda9168a7d223e":"54f9d1e2f2bd66d6ad04978432a6ad97":"ee0b0b52a279e45b899cc924f46eb1908355aae eaaa0c4dcaacfc57948a7993a6debd7b7bcd7aa424dc3b3b6f5f522ba3d5700a230b1697b8170bad9ca7af1050f13d54fb1 ddb111086cb650e1c5f4a14b6a927205a83bf49f357576fd0f884a83b0615435207e6af36a5369436d2e3851f3e6bfe c65b4816e3e3f144edf79":32:"8e5a6a79":"FAIL":0 Test case base64_encode #1
base64_encode":":1000:0

Test case base64_encode #2
base64_encode":":Zg==":1000:0

Test case base64_encode #3
base64_encode":":Zm8":1000:0

Test case base64_encode #4
base64_encode":":Zm9v":1000:0

Test case base64_encode #5
base64_encode":":Zm9vYg==":1000:0

Test case base64_encode #6
base64_encode":":Zm9vYmE":1000:0

Test case base64_encode #7
base64_encode":":Zm9vYmF":1000:0
Test case base64_decode #1
base64_decode":""":"":0

Test case base64_decode #2
base64_decode:"Zg==":"f":0

Test case base64_decode #3
base64_decode:"Zm8=":"fo":0

Test case base64_decode #4
base64_decode:"Zm9v":"foo":0

Test case base64_decode #5
base64_decode:"Zm9vYg==":"foob":0

Test case base64_decode #6
base64_decode:"Zm9vYmE=":"fooba":0

Test case base64_decode #7
base64_decode:"Zm9vYmFy":"foobar":0

Base64 encode (buffer size just right)
base64_encode:"foobar":"Zm9vYmFy":9:0

Base64 encode (buffer size too small)
base64_encode:"foobar":"":8: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/027oJl
LhVhXom/uOhFkNvuiBZ50/FDU/eWElkh2v9K+BG+XO+3c+S4ZFb7Wagb4kpeUWA
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QPhtgSVfCrFTxB+FTms+Vruv5KepgVb5xOXhbUjktmUAADBVC8JdQfdphqPPw0kZ
vq1ILGTZvcz/KeF6habFtpzAK6FCWwJjxK3M3Q9J1jce/FtcCP9fYQxyi1wyokL
BNsupk9wp7OvVj4INZNm5akmXiiD8MbJ3cXonZUT7Snbq3AS3FrKaxerUoJU
sQIDAQAB
-----END PUBLIC KEY-----
GCM NIST Validation (AES-256,128,0,0,128) #0
gcm_decrypt_and_verify:"2c1866544062b92e9639a7189d4ab5ab0b9bb877e43005027f3fa832fd3507b1":"":"3a032d463a70400490c92e7604a3ba97":"":"128:4c61cd2e28a13d78a4e87ea7374d0d1a":"FAIL":0

GCM NIST Validation (AES-256,128,0,0,128) #1
gcm_decrypt_and_verify:"747d01d82d7382b4263e7cbf25bd198a8a92faa8b8d7367584c7e2f2a506e9c5f":"":"7156358b203a44ef173706fdec81900f8":"":"9687fb231c4742a74d6bf78c62b8ac53":"":"0

GCM NIST Validation (AES-256,128,0,0,128) #2
gcm_decrypt_and_verify:"1cbe30216136b7eaf2236ea7b46c06625176d9a08182fa806a63d8b143aa768b":"":"4fe6ace582e4e26ce71ee7f756fb7a88":"":"128:d5bf8ec2896acaf7b022708d74646c7":""0

GCM NIST Validation (AES-256,128,0,0,120) #0
gcm_decrypt_and_verify:"f31194e83b88da9799a1eab3337ceb3d38a663790da74380df8f94142ab8b8797":"":"404ef2d6b665c97ea75437892c6f66b6":"":"120:e491075851eac08c723159cc1b2c76":""0

GCM NIST Validation (AES-256,128,0,0,120) #1
gcm_decrypt_and_verify:"daeed52ae4bf5cbe1ad58ae4ecb3da81fb9c0b6f7619ca21979313ad9d38e3c1":"":"3043eadb11249884b6b38b5525ba2d0f4":"":120:360c6ef41cb9cd4a4e649712d2930":""0

GCM NIST Validation (AES-256,128,0,0,120) #2
gcm_decrypt_and_verify:"747d01d82d7382b4263e7cbf25bd198a8a92faa8b8d7367584c7e2f2a506e9c5f":"":"7156358b203a44ef173706fdec81900f8":"":"9687fb231c4742a74d6bf78c62b8ac53":"":"0

GCM NIST Validation (AES-256,128,0,0,112) #0
gcm_decrypt_and_verify:"404ef2d6b665c97ea75437892c6f66b6":"":"120:e491075851eac08c723159cc1b2c76":""0

GCM NIST Validation (AES-256,128,0,0,112) #1
gcm_decrypt_and_verify:"3ad81c34389406a965c60edeb3214663ac4a6bd5cf1d54ae8d9de86dae93def64":"":"cebbce06a8852d3bb2978db2b5999a":"":120:bd7ca96fbd1099cde87c0f07cc887":""0

GCM NIST Validation (AES-256,128,0,0,112) #2
gcm_decrypt_and_verify:"9aed4aece6b1d857fdebe5aee6db38440613dce49f24aa31baf300b2587523f1":"":"947c5f0432723f2d7b560eca90842d1":"":120:2d331fedceaf0d1e9e6a84385467":""FAIL":0

GCM NIST Validation (AES-256,128,0,0,112) #3
gcm_decrypt_and_verify:"747d01d82d7382b4263e7cbf25bd198a8a92faa8b8d7367584c7e2f2a506e9c5f":"":"7156358b203a44ef173706fdec81900f8":"”:120:360c6ef41cb9cd4a4e649712d2930":"0

GCM NIST Validation (AES-256,128,0,0,104) #0
gcm_decrypt_and_verify:"747d01d82d7382b4263e7cbf25bd198a8a92faa8b8d7367584c7e2f2a506e9c5f":"":"7156358b203a44ef173706fdec81900f8":"":120:360c6ef41cb9cd4a4e649712d2930":"0

GCM NIST Validation (AES-256,128,0,0,104) #1
gcm_decrypt_and_verify:"9299b874eaa8b7ba7f69f18f4988a41e2708ae928e69a5ba7b893e8e6b2db5c3b":"":"2a04d85d20dc6f5294c71c0d89ac1":"":120:ea01723a2283ed65cebc80b1cf":""0

GCM NIST Validation (AES-256,128,0,0,104) #2
gcm_decrypt_and_verify:"404ef2d6b665c97ea75437892c6f66b6":"":120:e491075851eac08c723159cc1b2c76":"0

GCM NIST Validation (AES-256,128,0,0,104) #3
gcm_decrypt_and_verify:"2a04d85d20dc6f5294c71c0d89ac1":"":120:ea01723a2283ed65cebc80b1cf":"0

GCM NIST Validation (AES-256,128,0,0,104) #4
gcm_decrypt_and_verify:"afec7b4c8175db42c42d30593ed8ea949043880fc02e2725f0ab90ae638f9dfce":"":120:ea07f8c7a82c4f4c0860a420db12bc":"0

GCM NIST Validation (AES-256,128,0,0,104) #5
gcm_decrypt_and_verify:"afec7b4c8175db42c42d30593ed8ea949043880fc02e2725f0ab90ae638f9dfce":"":120:ea07f8c7a82c4f4c0860a420db12bc":"0

GCM NIST Validation (AES-256,128,0,0,104) #6
gcm_decrypt_and_verify:"afec7b4c8175db42c42d30593ed8ea949043880fc02e2725f0ab90ae638f9dfce":"":120:ea07f8c7a82c4f4c0860a420db12bc":"0
GCM NIST Validation (AES-256,128,0,0,96) #0
gcm_decrypt_and_verify:"b98e1b7f6828b65a81005449971fd8b11be546d31de6616cd73c5813050c326":"";"":"929b06e8d30d69b4a7f52392d7d3f11";"":"93394f3307f7a1957a74f2d4";"";"";"FAIL";0

GCM NIST Validation (AES-256,128,0,0,96) #1
gcm_decrypt_and_verify:"09ceef94ae761a70fe16772c6a462b058a69477c91595de26a5f1bd637c3816f";"":"e34b19381f05693f7606c0e436266664d";"":"2a0dece45947bfa7f4c5e464a";"";"";"FAIL";0

GCM NIST Validation (AES-256,128,0,0,96) #2
gcm_decrypt_and_verify:"654cf64598e5ad3e2e243472a459bced80f1e026a65429352dbd56e73f5c5895d1e";"":"a56f27709e670b85e5917d5c1d5b0cc2";"":"177b9a5e6d9731419dd33c5e";"";"";"FAIL";0

GCM NIST Validation (AES-256,128,0,64,64) #0
gcm_decrypt_and_verify:"84bea1b2768b9202b1f94f2d5e5a0a5f51fd8bb725f2bab8a3fcedb64a4e0a70";"":"c45b2708c5bdf65ece66b6db3623b";"":"fe82300adff8c17";"";"";"FAIL";0

GCM NIST Validation (AES-256,128,0,64,64) #1
gcm_decrypt_and_verify:"e8ae011795c9a60ad7660a31fe534f467e9c27247d1a26436291680cd95c007";"":"1bd9e61864509fed253cefed28121b1";"":"35214b5c510430e3";"";"";"FAIL";0

GCM NIST Validation (AES-256,128,0,64,64) #2
gcm_decrypt_and_verify:"df20a83a84f94f79d12bda44e12ce30a6957f3febdd5ec9bc134171326ca66d3";"":"728cb9608867a489a382a677f1f45b";"":"e2ef5d9ec5791c01";"";"";"FAIL";0

GCM NIST Validation (AES-256,128,0,32,32) #0
gcm_decrypt_and_verify:"788a8ad1cedd7446cf9cd9c56efa6f7e10af5762da0fd0da177f6a9b9c3a71";"":"f169ce6f3cc58f6434ae2b8aad1a63a1";"":"0fe57572";"";"";"FAIL";0

GCM NIST Validation (AES-256,128,0,32,32) #1
gcm_decrypt_and_verify:"02ca6d8a862e25db9d68e440abc107e700135df4i57efb135ce98eaa33151e9";"":"7b722fdd43cffe2038231212fbaf2d6791";"":"72de06c3";"";"";"FAIL";0

GCM NIST Validation (AES-256,128,0,32,32) #2
gcm_decrypt_and_verify:"9a2b709d9b5acca34b15b3ad541fb0b08381b7ee985b57df52f07ca7cd26ab1c4e";"":"729baa4c0ef75ed8aa7746376b39fe3e";"":"2a0d60c7";"";"";"FAIL";0

GCM NIST Validation (AES-256,128,0,1024,128) #0
gcm_decrypt_and_verify:"449d39f83e49090984b37f2e5c09ea4d4b3e9facc67bd57c299e4e1d1f084aaa3";"":"d8e9118f331bb5a359ff0a988286b1b72";"":"4d4ca5c5f24d622e12cd6eac73e8d1bab7957a0f51d27d7faace53aeed4cdd3f989eae25989a2f41c6b338dbd841c555600b5ab186b1b1f62cd23686d13da55b50219462e0218a2184a64a85326031fcee6f47a6ef4a435dd2b2ff6f67644efff3914ef2fda5dd556421bf2d97be150b31db039ff2cc422b28e65970ceeb";"":"c595b9d9941489128c9fa5ed5f5ccce3";"";"";"FAIL";0

GCM NIST Validation (AES-256,128,0,1024,128) #1
gcm_decrypt_and_verify:"3e70e66813fc4f8984dca4d1c9e2c2f41d5d1b7eefc8bb9581782e77c8a5a5cc6";"":"d804f1051e72c9b711702b826e25f1f";"":"081a1b2b7a87ebcabc66e87a532fa8fa56a2caac2f041f1e16744fe07c857c6865d623f508351f9bf3f0c5c77d1eb9430oa30a445472218eac626b00be7de4c12d33f8310346a89dd341e8ef7e0694afab4a8d0314d87ad3f921c7105eea0531b81151df7ccff2ce3790ef4d4ac3f60332dc7f34fdd9beef7ee0903361d65b";"":"c9ce
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 7288

2e3fdfe222f7345ae4efb978fc"":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,120) #0
gcm_decrypt_and_verify:"2de18874470c09db6b83c45cd752bda8af8b33e79672720b1a69f4112a02da1d80":"af30eb2d0afec2a50ea4c13f3d285aa88ad4"":"22889b8668d8cc9f488406813caed1a9996329019dd796e8632f5647e5fca39dib725266a931fee9586569bf6c5b6b934b2b17eb0aeb010af9c416601155262b5bd398d62f5555953f0ee15958e19ae004fbec9b25ece269a9eaa38a4635a27bfa719fb249fa493779796b5f5416baba7f3bf19b0fd8e11290c25a0b6bdc822f01":"6466be9b1468af65b0d1c49f1d0d":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,120) #1
gcm_decrypt_and_verify:"1a1bb9122e76ecd7f8811a16d65e56207d98e7a5bd1ca3a944e433710f3fb0599":"3299e4a4ebbf52e2701c2252e56c863d":"91b7a70c3a61c1ff2ea584acb5d761777ba07323c94f2e8f7cbe993fc0bb7c389c3c88e16aa511740f373cb7786acebf916b16be92c2969d3441eb17a083s50d36f882472af63cb03653b504d79f05ebafad221aca14af02fa41867acffad35f81e8a9d1ld2b9a63288e759063c03040c3e6ee69cf7c5f93c3afe1":"120:e8e29e08623aca3efdbb8e1b1de30a4":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,120) #2
gcm_decrypt_and_verify:"65debd2f2191a6cd8e8ade4d5d4d0d88f731f67744e2545df6b2a7ca89c1e00":"fdab2ee547d7d8b6fb5a4ea2d1996973be":"d2b0a048ee0ff145aee97ca452b788ecb47352b7f576aced721a7e0bae1942049h790f3a5b6221a786029659756d35347c040298e33549f6e3a271a209e40b1a3253a883e8db23376da6db9539f7c9fa4a12dc64297e7c93dafa0b53ef76666e1d95bbf6d3f6ee6f808662fc03ec9d40eff0a43f23ac13617bff9d":"120:e25fc157c3f2474885e2e4eaca488a":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,112) #0
gcm_decrypt_and_verify:"5e8a4f8950577f9ba31290e9a5e91b494c2d99534220362e171a7543177ac":"8410886b70c5d77d8ed859643b1bd157":"ca801c8359679595515eqa913edaba006e332fb84246b7036b1e0b137e2d09a51b2981fc664e4c43f481bobbb121dcd1a2abc6907c269141fe59e9ca95362ed2453cd5b27c04e29c52687b725a97bce8484b8e866ec6e30bd7a54a9305a3c0dd2b3aceb825a238252e757532905b840e755757a16439edf5b16355e5f5":"120:e3645db0c600dbca52044efecfc331":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,112) #1
gcm_decrypt_and_verify:"4ce5f1744337778212411bd5":"85f5b54b4ca4f5ce80120b8d28d98e4e9f4df21623e57684957e9fc4df1ada20583940b8efc8314a249325476e8d05247831b040795080ae714e187cd389595491e14e9fc4f8c454ec191b8ef2a3610988fe33390d9c6db72f559f78efdf9596fdaf27056e3a90e6497267461386e806f6b9d65526294bcbb29908b5661b06b5a":"12:4ed91af6340e7b06c2b94ab6f82e":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,112) #2
gcm_decrypt_and_verify:"aca18813b46139c7ecf82a6aaae2b7f3cecdac14e75c663bd62dafa1ec711d":"7b87f7bf55eb70ce49ac4627ced55a:"015c6ba90f609545fc6d0f31992fd3c3592eb917a53df59786dd64291954c99a57de82d3938e872b68d14ac04a88b425395b0d706ead59eb445721dbd2f45e19afa089117800cbbac7b8313fb165cbeb122ac
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<th>GCM NIST Validation (AES-256, 1024, 256)</th>
<th>#0</th>
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</tr>
<tr>
<td>GCM NIST Validation (AES-256, 1024, 128)</td>
<td>#1</td>
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<tr>
<td>gccm_decrypt_and_verify:</td>
<td>&quot;8f02dd426e7f20b02752d8cde0a6382e4f9b029b52126889013ef45251f27b2fab95c4a9a93b16ad0699e3a7a51a727;&quot;0f2c6d24e181d329d5b076a4be2ad6823cee6edbd17da592d605debebb92b1ff37a56bf25e5341f39c574246cdca19e5f35ede499b9a583920cc544004b04fabb846884ca02a3aaf51f4e97a1935571319ce5b40f8aaec86d7de280db82343389382638326fe03e013af19c3e4672975de99c80531aacf7c617d65;&quot;104:&quot;88b8836c9111073924a9b43069;&quot;0</td>
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<td>GCM NIST Validation (AES-256, 1024, 96)</td>
<td>#2</td>
</tr>
<tr>
<td>gccm_decrypt_and_verify:</td>
<td>&quot;304824914e32ae0f0ea616be697258609349bd2cc2c0ff44be943682b2dbf5;&quot;1b6d927a719229026766be424746f7c8b1;&quot;7281c81e7154f1b471c12b546490068f959a4001a1e4609d2277363e433725af32346a10bcb82666ac8222158920dd2aa2db66c918313c343941ecf3c69f40fe2136190cae3d39aa277ace247f36291b5614a8433ba0780434a6c50521b72ec25145bb3b1926471555d5dd9f9e66762d39592602ea99bf9bff49;&quot;96:&quot;b60444d75f949f1688b2c61e;&quot;0</td>
</tr>
<tr>
<td>GCM NIST Validation (AES-256, 1024, 64)</td>
<td>#1</td>
</tr>
<tr>
<td>gccm_decrypt_and_verify:</td>
<td>&quot;8a10e9abf938973e12a4abbbf535aae81e88d32e0dfb0cf5fbae2128c1fde7a23;&quot;16da44354e198ec3ebb5479271bbebcc1;&quot;199d7546031b5699f1e2581d3027a569412ab397a87dd94d828eb7778ce65c673665260c2782e0e566fe1e3728fd7bc1853a3900e437526f62c6f9b542a302ee4af314473674f692a878ec1e4b475d889126e631715aea7660f88ab771595697587f695490372361c917523615a8666ce724bd4a20c9257984c06;&quot;96:&quot;5c5683e587bf3f2bd32e3df5;&quot;0</td>
</tr>
<tr>
<td>GCM NIST Validation (AES-256, 1024, 64)</td>
<td>#2</td>
</tr>
<tr>
<td>gccm_decrypt_and_verify:</td>
<td>&quot;d1644ffde5dd84bea0f7e39667e3e6ac3b16682c41a2e424759891004a54dd7a7f;&quot;1d388e19e9d7a9750e2fc1187d4b075a;&quot;f166a5b6f691216ca56f1a537f42ff8aed1a0f5e0248f8910034b2dbc582d529535f1497517d31ffbc30d92234b44016073851fe0e43530418147ce6270fbc5d33ab199ba87973051908704bb6b4eaa8aca0718947e6a82948afe26ab81398178c39d699f0de2e1e60927530c4700ff21f00179002b29703dd4103bcb5e645;&quot;96:&quot;52e10495105799e9ad991547b;&quot;0</td>
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</tbody>
</table>

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GCM NIST Validation (AES-256,128,1024,0,32) #1
gcm_decrypt_and_verify:"90ce1afbf5004899bedb9d87f4009509c847b3e55cdf0c764ef2fb085e3d303":"98482b54
edee2b2ac1ced64d4917fc117efbf2b6dad7a9b263447028304f1cf5af69559ce05b58d33240f4ff6dd6b3e08277d01eb4b3
235f1e4b47d33d3899325b55e7be1943187a5b1b3154e0a2a529b3df1c131b4883902a9efc565079dee825e705f3e580
371e4fdd86c3b0d31bae98ad5b29901f346ca071273141524370edd":"e119e166471ecf44bc3a070639619931":"32":"b2f54b3a":"FAIL":0
GCM NIST Validation (AES-256,128,1024,1024,128) #0
gcm_decrypt_and_verify:"84ff9a8772815b929d97a10250354cf3e02bce83366f6cf5794952b4c5d59d":"a87de56d4
9725a1625baf12fd15931e1a6783ced51d4e74eab09f85ec065d1041c02d70e33a7eb6f7b5243792715e2f3e2c42
ebdbad45f7f28868bd821c4372244699ddd99a63dbe7763a5a3e22bc3f25c3d2514eba2a4f5e24dca7e07cb36fae
80153d77fe0641f577d5af073d3c4253c8de877e45f274273435456":"5c044a6e48885ba4f74977e2e2aadfb003043e
b0c6b2d0ebe707e8824f44e0ce4b57e47b3d100f29b0529d274306039869117b56ca867b3a96a91425ac6ac3
b3d504cbb4997c6622eade09717023fc7d956b01ce2a4a5e53cb5da477b2e3fcf52bb75d9377222df2b75bc74aaf9670f
5fe9691a0ae077e43f6abc67a614ec09f39661aa03c07b19f35f63":"128":"72dd9966edeb968b498c1bcb113331
aa db8537309040224267ca939aa6182d676ec75202953a15e98a2452040a9087c7f109035e78078ce255de914dec8bb63
5cb70e3e55963cfac9901e44b83a0c7b52d3f002ae0a4a08354feb47b2abb95ff2a21107626efb8e1e099650812a
66ecfe36908faced2078e2735cf7c2b970a2a30e5c6df629c26a05720c571050":0
GCM NIST Validation (AES-256,128,1024,1024,128) #1

gcm_decrypt_and_verify:"84ff9a8772815b929d97a10250354cf3e02bce83366f6cf5794952b4c5d59d":"a87de56d4
9725a1625baf12fd15931e1a6783ced51d4e74eab09f85ec065d1041c02d70e33a7eb6f7b5243792715e2f3e2c42
ebdbad45f7f28868bd821c4372244699ddd99a63dbe7763a5a3e22bc3f25c3d2514eba2a4f5e24dca7e07cb36fae
80153d77fe0641f577d5af073d3c4253c8de877e45f274273435456":"5c044a6e48885ba4f74977e2e2aadfb003043e
b0c6b2d0ebe707e8824f44e0ce4b57e47b3d100f29b0529d274306039869117b56ca867b3a96a91425ac6ac3
b3d504cbb4997c6622eade09717023fc7d956b01ce2a4a5e53cb5da477b2e3fcf52bb75d9377222df2b75bc74aaf9670f
5fe9691a0ae077e43f6abc67a614ec09f39661aa03c07b19f35f63":128":"72dd9966edeb968b498c1bcb113331
aa db8537309040224267ca939aa6182d676ec75202953a15e98a2452040a9087c7f109035e78078ce255de914dec8bb63
5cb70e3e55963cfac9901e44b83a0c7b52d3f002ae0a4a08354feb47b2abb95ff2a21107626efb8e1e099650812a
66ecfe36908faced2078e2735cf7c2b970a2a30e5c6df629c26a05720c571050":0
GCM NIST Validation (AES-256,128,1024,1024,128) #2

gcm_decrypt_and_verify:"84ff9a8772815b929d97a10250354cf3e02bce83366f6cf5794952b4c5d59d":"a87de56d4
9725a1625baf12fd15931e1a6783ced51d4e74eab09f85ec065d1041c02d70e33a7eb6f7b5243792715e2f3e2c42
ebdbad45f7f28868bd821c4372244699ddd99a63dbe7763a5a3e22bc3f25c3d2514ebra2a4f5e24dca7e07cb36fae
80153d77fe0641f577d5af073d3c4253c8de877e45f274273435456":"5c044a6e48885ba4f74977e2e2aadfb003043e
b0c6b2d0ebe707e8824f44e0ce4b57e47b3d100f29b0529d274306039869117b56ca867b3a96a91425ac6ac3
b3d504cbb4997c6622eade09717023fc7d956b01ce2a4a5e53cb5da477b2e3fcf52bb75d9377222df2b75bc74aaf9670f
5fe9691a0ae077e43f6abc67a614ec09f39661aa03c07b19f35f63":128":"72dd9966edeb968b498c1bcb113331
aa db8537309040224267ca939aa6182d676ec75202953a15e98a2452040a9087c7f109035e78078ce255de914dec8bb63
5cb70e3e55963cfac9901e44b83a0c7b52d3f002ae0a4a08354feb47b2abb95ff2a21107626efb8e1e099650812a
66ecfe36908faced2078e2735cf7c2b970a2a30e5c6df629c26a05720c571050":0
GCM NIST Validation (AES-256,128,1024,1024,128) #2
GCM NIST Validation (AES-128,256,128,512,112,120)

gcm_decrypt_and_verify:

"886c77b8b0f5f3a21e0193235a84b0b3265f6d6415d574cf527227ed0bd2f21e":"53a17d7b6f9607f08676d6f6d4de8d8b010e53a355d8c761e84df4010ebf0b416cd6d3ca245f05f5342b167064af8245e4702a5e8de245b7f6713335392433950c9b7c38d9e515ae97d907c03f09951945008857a30941bb2ca00c8edeb6800f834f2aa7aebb6c143e2e5a76b64acfd19f9d5c5d0871":"5cc506ed1820a5a63b4e4494040d1419":"05bbd820c9df49d9a5e02b59407d4c77e6b3fa47e88b99857a2145671589782143513ce3c50420d120a9fc9bf49850b0affa01b95c4960fd041589939bb7899e8033dd02e1ff0a51c0h5953e85be639190b14b100e35ca2dd84a6299640db82600da30a5066261bf37e79de4ce99f19f0b2a7c5ec9d3399b6e9":"f7df56c1e17252882427287536484":"79eef2c7add968a9d2710c010ee8070806ef3d7bb811c93b82ab6f98ae08561ff0c6061d2619738e29e5b75e78040e1405a9913830e3ba0d7b979213e4f0d733a19497d4bb1b89b2609a8f904e29771fa230c39a48eb88c33760f708103f0ffe34f10fe53988a66ec87a9296c07cfa7b796adeef599ece6671012965973":0

GCM NIST Validation (AES-128,256,128,512,112,120)

gcm_decrypt_and_verify:

"53a17d7b6f9607f08676d6f6d4de8d8b010e53a355d8c761e84df4010ebf0b416cd6d3ca245f05f5342b167064af8245e4702a5e8de245b7f6713335392433950c9b7c38d9e515ae97d907c03f09951945008857a30941bb2ca00c8edeb6800f834f2aa7aebb6c143e2e5a76b64acfd19f9d5c5d0871":"5cc506ed1820a5a63b4e4494040d1419":"05bbd820c9df49d9a5e02b59407d4c77e6b3fa47e88b99857a2145671589782143513ce3c50420d120a9fc9bf49850b0affa01b95c4960fd041589939bb7899e8033dd02e1ff0a51c0h5953e85be639190b14b100e35ca2dd84a6299640db82600da30a5066261bf37e79de4ce99f19f0b2a7c5ec9d3399b6e9":"f7df56c1e17252882427287536484":"79eef2c7add968a9d2710c010ee8070806ef3d7bb811c93b82ab6f98ae08561ff0c6061d2619738e29e5b75e78040e1405a9913830e3ba0d7b979213e4f0d733a19497d4bb1b89b2609a8f904e29771fa230c39a48eb88c33760f708103f0ffe34f10fe53988a66ec87a9296c07cfa7b796adeef599ece6671012965973":0

GCM NIST Validation (AES-128,256,128,512,112,120)

gcm_decrypt_and_verify:

"79eef2c7add968a9d2710c010ee8070806ef3d7bb811c93b82ab6f98ae08561ff0c6061d2619738e29e5b75e78040e1405a9913830e3ba0d7b979213e4f0d733a19497d4bb1b89b2609a8f904e29771fa230c39a48eb88c33760f708103f0ffe34f10fe53988a66ec87a9296c07cfa7b796adeef599ece6671012965973":0
GCM NIST Validation (AES-256,128,1024,1024,32) #0

gcm_decrypt_and_verify:"e61ba6b64oa2eb1245ff65decf99498318ac4fe55e9de600ecce301da2eae9093":"8d67fa9cfc078e4212c63aeb25db739ba0be09a91d060b6e16ee188835060bd2d73a42f57f115266ea20c7f8fc143ac746649612
d06a5e29ba195343d49be1ab9d018b646c3f7d8c3d9c714f038029874d88e3de68d1a1d6c320ea431b3777604
d121071aa19659db081e592cda5f0b0a6e31bf2c6f63bf499":"c356248b3034d288e44d4f49010be8e271":"bdcbfe09
d5979bab05a7ac98497ede2c5eb7a4ca547c3ed1c0409245a6580423114d6d4e30000a16874b7d50209
d5924082e4ce571c9b0f614fa4fd478d1a91b3251531e6e852fbbd50d4912cc1ff8898d1955e6ff5e2ed2802a076425eae
69e8122b06b0a01e806400b9b615e1abe6fddf456a70d2d649083":"32:86acc02":"7c71381eca979d6177ab478a6e6e
62f02a34917a09951981c89916b11a484040614ec3424d50733e2ceccc6b8303dbab940e1f77318d5522d16d9da
47770e0f22395d6104ed6263d9d6709a27507f8ca01457e7939e639e62cd0e7d8a7423148330eaea9ba2fd54a25b02
8543b3f25cc0c63d88885e082374ae5023502932":"0"

GCM NIST Validation (AES-256,128,1024,1024,32) #1

gcm_decrypt_and_verify:"45fa02e9843d28c8c226ed70d4d4b8f6ed87f57ab6ece4d4f06e3c3ec97e44":"3c3e1395d032927407145583cba1e86b8811777576b0a8fa6cfca2564262c6d0228f8bdsf8df271a06854830405d0
cbde98671607018e1d7491bf40c739ef4d936893d5929b225089d2b15f3d3b9c37630061114458676753540c49111205409f31608
2d27f99bf433af979820a281198484d8e70c1f2a13b3d8f30a53b":"0999d59eae89b69319a1b8d844a738e":"ad93e86e
623c196e4abf5a3b929cd304215a19980ce789f0592b7017f97c1e499f86867ed2e385a41462f46a3459c58b88
2214f425506bcd686fad7c8e8e19446e620e93577d14d66ef2592740ca12f4cd582250d69f2403e957040e17e10c
6083c8f2b0d0c6bb66604c38946e9eb92f17336d281b4794f71e53a8":"32:3029885":"FAIL":0

GCM NIST Validation (AES-256,128,1024,1024,32) #2
gcm_decrypt_and_verify:"1ecbd21e8b00de02156e5b48128990777889797ce0618a9828e61164ae04c7e":"4d039611
8a0e6b60432990f9e7de18b928e3f0a7dab42c977747ec2882e872efc0079597387a31976f323278078934c06a71e
16316f138f7b1bae321c56e8e
fc1cb8480f051158e4685f0adba310d2c6253bc1300403cd3f7ddeb2796a69ff8e73d47ada902673ca13d5eccac8
38abf22b3859062365290a1b7d5b8af2611a04cf4f83b15a41cfc":"d2fbb176f86bee958e08e5c76357c":"bc580e4
GCM NIST Validation (AES-256, 128, 0, 0, 128) #0
gcm_decrypt_and_verify:"dc1a145c18hdbca760f35eea0d4a5992de94a061596ec8b419ce8288ab1470f0":"":"7f8368254955e1b6d55bce4458f3fe66":":128":"8ddaa2ce3ed9d53731834fa932d9d3af":"FAIL":0

GCM NIST Validation (AES-256, 128, 0, 0, 128) #1
gcm_decrypt_and_verify:"7b4766d3a6615ee58b390daa228ae7a541c46ce80a1e227cc43cb777df3232":"":"274367f31ec16601fe87a8e35b7a22dd":":128":"5f3a757b596e06e9b246ed9b9ac397f9":"FAIL":0

GCM NIST Validation (AES-256, 128, 0, 0, 128) #2
gcm_decrypt_and_verify:"d19b04055bf6e7f82e89daef66c9d8319ab25f9197e559444c5729b92e4f338":"":"796efaf4f172bef78453d36a237cd36":":128":"3b44f3f8bf4dbf94f1a9ec771173a29e8":"FAIL":0

GCM NIST Validation (AES-256, 128, 0, 0, 120) #0
gcm_decrypt_and_verify:"7ca68e300534a90a7a87ca9906e4ac614a6aa51f769b66e129753a4f83d1031":"":"45e6b23f8b33f6e4d40a60880b2334":":120":"6cf0a1e9c2c5a40407bfa1d598612":"FAIL":0

GCM NIST Validation (AES-256, 128, 0, 0, 120) #1
gcm_decrypt_and_verify:"a2b7cd693239bbec93599d3d12e9876e7303b227b8ae718e2c62e689e1fd62903":"":"548ec9c8fccc16416a9d2b35c29f0dadb3":":120":"3aa21f22126e67773eeba4440d1d0":"FAIL":0

GCM NIST Validation (AES-256, 128, 0, 0, 120) #2
gcm_decrypt_and_verify:"156bb584beb0c276a5e724f5da72f0d1ca4e7ebd5f93a2257d95c2e5bfdd78ad4":"":"a5129e2530f47bcad42fc5774ae09fe7":":120":"6bb09ed183527c5d5ed46f568af35":"FAIL":0

GCM NIST Validation (AES-256, 128, 0, 0, 112) #0
gcm_decrypt_and_verify:"d824330ce60141264e1f709d63227a9a731bccc42b4adec1d8f0161b10b4f2db2":"":"c5afa45312ce64ab3c3cf9d6c40cc47":":112":"55952a01eee29d8a1734bbdf3f8":"FAIL":0

GCM NIST Validation (AES-256, 128, 0, 0, 112) #1
gcm_decrypt_and_verify:"b5517589948d8ae7778df6d66c17a170d327f69e504f0a4bd504c4286af957":":6404b111e6289eefa0d88ed6117bb730":":112":"637f82e592831531a8e877adfc2c":"FAIL":0

GCM NIST Validation (AES-256, 128, 0, 0, 112) #2
gcm_decrypt_and_verify:"f6137b2b2bcd327fbcc7f313e9a106f6f9ef3d0e4782e222e1225c87103fca905":"":"3b87b08337a82272b192bd067e32456":":112":"1f2dda372f20fdd9dd4810e05":"FAIL":0

GCM NIST Validation (AES-256, 128, 0, 0, 104) #0
gcm_decrypt_and_verify:"b5e70d1b78e931abf44bba3f937dc344858516a8a8afe60581dc67d0ce4c":":58e70095c6f3a0cda2ced7775e2f383":":104":"17635737dab8946bc177e6147":"FAIL":0

GCM NIST Validation (AES-256, 128, 0, 0, 104) #1
gcm_decrypt_and_verify:"90de0c047d1dd01d521f2dedec7eb81bc0ace7a5a693a7869eafbb6e725ad7b":":d565c9cdefb5d0a254083b51729626bd":":104":"787383e9f5e00b49635ac9a2":"FAIL":0
GCM NIST Validation (AES-256,128,0,0,104) #2
gcm_decrypt_and_verify:"c43e8dbea0b7962483a9fcb9b64b76fcccc6ca99e1388a1aa9b78dfd2f02"":"f2bd4fe0d30c08e8d429c90c8a7b1c8":"104";"ea7b52490943380ccc092ca5ae":"FAIL":0

GCM NIST Validation (AES-256,128,0,0,96) #0
gcm_decrypt_and_verify:"13540919db95559e37b535a427eefe3343309e34c4608459e204d931b0807e7":"e993c1802d0f075e92963eb9b9f9b9d":"104";"edfaba0131235919eb53e6419":"FAIL":0

GCM NIST Validation (AES-256,128,0,0,96) #1
gcm_decrypt_and_verify:"2a7b2e07c148ff0f627ae28c241a395876bbbed0c20f3fd637330e986db025714":"8f7e1621c2227839da4ea60548290ffa":"99da62f9c080160ec30b43d":"FAIL":0

GCM NIST Validation (AES-256,128,0,0,64) #0
gcm_decrypt_and_verify:"9df3cdd57f577f5f6efc5e5329deb79bed46c6c6f083f3e03aa8f5bd0f645c6a06":"774f4e70a7577b510c3d3019655d3e":"64":"98ff89a8e203c3f":"FAIL":0

GCM NIST Validation (AES-256,128,0,0,64) #2
gcm_decrypt_and_verify:"b3e7837a75b38ae4d2999a1ae4af3c2460dfc558708de0874d6b1a5689b8360":"05d363b2452beff4bf47af0b52a393e973":"6b4a16d1ea1c2b22bdc235":"FAIL":0

GCM NIST Validation (AES-256,128,0,0,32) #0
gcm_decrypt_and_verify:"360e48dd38d9e7f5bf299a2994ab5b3c97c70247102d9409a7e918507a4c845":"88126c350dfc079c569210ee44a0e31":"2f2ebe5e4":"FAIL":0

GCM NIST Validation (AES-256,128,0,0,32) #1
gcm_decrypt_and_verify:"1562b32e4dd843eda4474b62caad8f465d046f1f5b22e9f1a8ea7367d35d71":"af29f9b6f726a7676c473c873b9e08":"13f6ddf":"FAIL":0

GCM NIST Validation (AES-256,128,0,0,32) #2
gcm_decrypt_and_verify:"d5160d0c98ffceb1c26aad755f67589000e2bb25fa940e6b1d81d780f421353d9":"1552604763453b48a57cea1aed8113f":"660c5175":0

GCM NIST Validation (AES-256,128,0,1024,128) #0
gcm_decrypt_and_verify:"c34ea3a0f97c0e2b3a4cb78462d87fd5a8f348687c4150e9d3354b388ab13d17":"f77945979241fba3a454d8e3da193e169":"a69bac312411ac07d3f3e331b777662b1e67c8b1c07f52578b01f5785de9437f02eb7627a7b9af09c1cb428fe93d6deb31f4d6ed2f0729f87480bdeb92d9581ead4bcbec6fbd83b6ed9a5dd1ca6a15b5fad8a96d4deb5bee17f1d915e95eb2e5fb222a21596d69f257c18a143eda870e223f2ed20e9b3b0d8c8a229c462ff":128":6b4b1a84f49befe3897d59ce85598a9f":0

GCM NIST Validation (AES-256,128,0,1024,128) #1
GCM NIST Validation (AES-256,128,0,1024,96) #0
gcm_decrypt_and_verify:"ff5af5ce2c62e3f0f5f0d90f9d0561d7d71337913680ac16bdc15c56538d":"9212a548c597677d1747e986c6bf184":"55a1486c0183603497848e0aa4715db
d9bab864eacc708a0c051a24a0f8496d6fa0ca385291109ea7b11b7e748afa0e0951c7e22661a3e2c5f0632e50e3
d326fa33e2319c1339b2888257baa5ebeb1333a5e7483f8eeb11167099565e3131d50c360f2174f6c6b6b37c":"04"
8d7cc52d1637dbba43c54399310":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,96) #1
gcm_decrypt_and_verify:"fe0a9309453ac5f7eae26217e9041c79a4ff938ec6fa19b8a72ea972e495":"27d1d7a7e491e30c8110ece31932529":"7149d2d3b2d3ace0779e2d37a0f744d6d973e99a279962b4a36a0fa63772e8a0a2125d9d3343db4218c2f24dd8d93bb4e16a78cb9313321ece455e747afa9198b563b9e8b4980a8c8bb3b19d50d735742cb58537202ad37fa5b0651459453858308fd7999c0de67670dc24fc9729797903bb3b67c487a5f89a25":"0"

GCM NIST Validation (AES-256,128,0,1024,96) #2
gcm_decrypt_and_verify:"55a122ea637654252e3e40b37167673f3080b00ff2daaf69223e4cd89e3cd4e":"8a3793b6441258607f74801b0d30db2":"f5810dc52496d94bc63c2494aa7a579a4056a25f9d9273400b8731e52523e5dd54f475651d45c23e1fb25f327b02e4a17d85345b20b2c9d27b80915d332e165967199a14e74bb5059567ebbbab6eccecb1821f9777130623d5a7b1715fa584b33486661c1f450bb95562928b4791757979a17775d9ed18bfbf141e2ad":"96":
"99230019630647aecedebb24":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,96) #3
gcm_decrypt_and_verify:"55a122ea637654252e3e40b37167673f3080b00ff2daaf69223e4cd89e3cd4e":"8a3793b6441258607f74801b0d30db2":"f5810dc52496d94bc63c2494aa7a579a4056a25f9d9273400b8731e52523e5dd54f475651d45c23e1fb25f327b02e4a17d85345b20b2c9d27b80915d332e165967199a14e74bb5059567ebbbab6eccecb1821f9777130623d5a7b1715fa584b33486661c1f450bb95562928b4791757979a17775d9ed18bfbf141e2ad":"96":
"99230019630647aecedebb24":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,96) #4
gcm_decrypt_and_verify:"55a122ea637654252e3e40b37167673f3080b00ff2daaf69223e4cd89e3cd4e":"8a3793b6441258607f74801b0d30db2":"f5810dc52496d94bc63c2494aa7a579a4056a25f9d9273400b8731e52523e5dd54f475651d45c23e1fb25f327b02e4a17d85345b20b2c9d27b80915d332e165967199a14e74bb5059567ebbbab6eccecb1821f9777130623d5a7b1715fa584b33486661c1f450bb95562928b4791757979a17775d9ed18bfbf141e2ad":"96":
"99230019630647aecedebb24":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,96) #5
gcm_decrypt_and_verify:"55a122ea637654252e3e40b37167673f3080b00ff2daaf69223e4cd89e3cd4e":"8a3793b6441258607f74801b0d30db2":"f5810dc52496d94bc63c2494aa7a579a4056a25f9d9273400b8731e52523e5dd54f475651d45c23e1fb25f327b02e4a17d85345b20b2c9d27b80915d332e165967199a14e74bb5059567ebbbab6eccecb1821f9777130623d5a7b1715fa584b33486661c1f450bb95562928b4791757979a17775d9ed18bfbf141e2ad":"96":
"99230019630647aecedebb24":"FAIL":0

GCM NIST Validation (AES-256,128,0,1024,96) #6
gcm_decrypt_and_verify:"55a122ea637654252e3e40b37167673f3080b00ff2daaf69223e4cd89e3cd4e":"8a3793b6441258607f74801b0d30db2":"f5810dc52496d94bc63c2494aa7a579a4056a25f9d9273400b8731e52523e5dd54f475651d45c23e1fb25f327b02e4a17d85345b20b2c9d27b80915d332e165967199a14e74bb5059567ebbbab6eccecb1821f9777130623d5a7b1715fa584b33486661c1f450bb95562928b4791757979a17775d9ed18bfbf141e2ad":"96":
"99230019630647aecedebb24":"FAIL":0

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GCM NIST Validation (AES-128,128,0,1024,32) #0
gcm_decrypt_and_verify:"07a57ef85ffcf0548c3d087012b336c46ff574cf1d97ca087bfad042ee83ee2c":"3d580402d2a8d4d746e65dcb456be7a":"c29b9e95c16e550289794a3e6f82d11f8b8a275dc3a481f238e472cc32264534bbd54cd07d02a0cecf9019a1a6d6c779f13934d47e397940486950f183bade24fca2f4f0d4037b3555b09fc80279ea311769473eb0630b69a429823324cd780d71a50d89f17a23b05f7a8c3ad0d4b7949aa9e6a55978ba48d078b5a2fd3c3bb":"07d424118e70c5ab":"0":
GCM NIST Validation (AES-128,128,0,1024,32) #1
gcm_decrypt_and_verify:"63889ed5bf2c27d15a8696b71c0f85592333eae95b5bf07289e4c5dfdd088d":"1ad534280a0f9ac7dce31f2ae4f7b3f5a":"be1b9dae333b99443e27f674b27931cfbaa9933dce86fab29e5b076a9441030444b465317bbf2949afa908e1b50d11a5ea2024e4b460a85f3be5836729e523d99b56f9e39231d5c6d8ae2cb36ef4eaa20a1f2c559c6e333216c7f9ed5f9b880a88e920219204c99a3ae8f90afaf1d39653bc5a969193e0700b05f9d0":"1bceaa0ac2e1ac0c73":":0":
GCM NIST Validation (AES-128,128,0,1024,32) #2
gcm_decrypt_and_verify:"94e3e2c17c8c6f524dfdb3a3b5d18ba891b6662e85fd14d7e61f04ad6b9e0e5":"8a80efb3e220250697543490fffd4d":"05da1b07cacee4f8483f087cee7f35abe3e76d39790d3e6cb5b7417972968ee8943c6b7f984300d7bce5a5f3ba923bfb41d88652bdacc710964c51f3e2ae2c280b7d6ce83b9a8991d19d92d46e8a158123187f19397ad1ad9080b4ff0d04b82b5d68d89adce37e6439013728c1395623e722b2e45dabfe4f68e70b5":"faa5c13d9899f17ea":":0":
GCM NIST Validation (AES-128,128,0,1024,32) #3
gcm_decrypt_and_verify:"f6e5479ad9d79bdf717a1f15f5250d467819e4449b79c3def1e0033c80ddad8":"47ce838083df0d70d8544ca03d37cedc":"98476b0f5a18ace4ff1b6024dd779c1ac06d83870a0a83e42eef5e6ebf3ba1a5049b67f4aa6b283d6f565044bcba2e1d928c19b3bca2a6635939456ea49e5bc763dc94f4b9e343d3888f16105aab09655e24f51cb4949406124145e9ae31cc76535bf4178492f38b311099df2751f674363ae7a58f6f9031965f7e6a6f0":"a3958500":":0":
GCM NIST Validation (AES-128,128,0,1024,32) #4
gcm_decrypt_and_verify:"27d4dded7b1af866caace2eb9e56da772bf5a097b9719d141df29f85b2d21ad8d4":"7e6f0343c54539717a97cb6cb9f79f7dec":"d386db70843f719be137cb79a7f53d2ae3fbaccebeb57499f6eb168e51f1f10081d76b72ae0f30165efbda469eb2f624669b9cda5c0bf2769c1a006c192e24073e99c19c81c1420870c8b83c4e2e7b1e696394e5620a2b2d11d75dcd2a2298997407fd5d0ce0700de8f9941c4a5f8074736a59404118afa007066c":"50f6d179b":":0":
GCM NIST Validation (AES-128,128,0,1024,32) #5
gcm_decrypt_and_verify:"e65794a5a57ee236d29f28542d0d24d323fada266da8e8898e6b603b87263da25f7b0":"99f7c8d05803e143ec8f313475fd2":"1006cd70f60782b2b6f4734062b12a5265026b2dcdb80a3ce2058352a2922d5e66fe19681bf4df79ad3e837f81e72f2f8d1f669894e802a390725b26c2864f05188c70f7ec6edd5f5bb09877f9586bd846d1c14591b11d22c772a8ad7f7f6ed8b46be0e93672df2e8bfb8ba080269e19846cfd4603e75f2d98874665c1a089":"32:07764143":":0":
GCM NIST Validation (AES-128,128,0,1024,32) #6
gcm_decrypt_and_verify:"a9444f1d76aace06d10221fde3ddfcc4f7f4e995d981a831297c4cda51e22a1":"c146ff5a988496cad7ec2a2e471e01175d6b62562c23e9d9b4fd63d883a3c22e90486ec288a62d7208eb2f3d68f5b301c7f7cd1d97959981a95d1cf37effc46db99b94b21e941c3613e26a10b1a6b779f467d5ff5f153612230f1c49d7efc6646fe52fc6eca46273982f6fe729b009d90eb8d88ea40b0d9eb907b76da":"5714732145470da1c42452e10c2d74b5":"128:db8
GCM NIST Validation (AES-128,256,128,256) #0
gcm_decrypt_and_verify:"404a5d1ac9e329caabfbffba485e9c27ed9e5c0defbaf32ce31214498b8":"b636c4d88
5487f0e2d4d11373ff5dbcb16f78494ce25cc28020de9d0cd1d8d91dbf19b9e0101ee8418c988a69f2b30ccd0dbdbd50b0be
71e1e66611c11c26f2b0f7c02f2e9aeb2eb2ec5e1bf046202db2db2f0a1585be626b929f6a98d1b11319dd985f1aa69216
07072d295710f0e6d87e15a45b5e678a6f267f2c65f3593bc43ede3":"b6ec75f9ca04f2b139abc7d36f8b253228009e503a088be7b97752da9e1afbe7be2c9ab374470b0d3c91fa4d7e17ded6a008086e6f5c5
f05411e17c0769d1bf6c93f843c0f7a86e7e850e13e732979e0eaaa97b709e05faa0b2d1a1f2625a39363308313d7489
2cf531c3f6d7db319be3a5aa297f83e4607477903d4637c4f52":"198:94c1b90790f9c48e7fe6f0eac32b20ed":"FAIL":0
91f40a1de0fa1a08738025d13e6fe0b30be40f5d4874f1f8a2427a19e0b701d9836c32316a88a68c2b40dafa1ea831a64519ac3679acbe404986ec614e67c498e6f4e594e049e04:0

GCM NIST Validation (AES-256,128,1024,1024,64) #1
gcm_decrypt_and_verify:"ca9fa36ca2159df9f7236fcd1b32084466bc36880437c2e2504184791596":"e04ac4293544d832aa4008c11cb202d151d6178a1343b4268292bf73ae45d5cf12e4a7be4b43e185f64b06ab67b3a9f3644248a9b3fe13a18addb744797b851ce7c975574afe0e878167720afa023b28e415f4ed5d75a9e3b94169ed9ec3a1c2b16e37eb589444b588e0b87709d9f8e18a8d3f38a4aeef3f8db1a77:d13e7336ec571146f69e86e0ab8d48:"a2aa510b7f1620bfec990800e825f468db3c5134b59017f1e0c5278369c51ac01eae9c19d152f7ca7a26ad9e67b7ee5af92888d9a57ec4eb434de489435b5e01521ac7d7ed647749a42876af2eb9ec92108b539fbebda9127c949dalba800f6034050b8576e94411dfbca59d64d259571b16d2ed5b2fc07127239b3f4b":"64:2111d5d96a48d4:FAIL":0

GCM NIST Validation (AES-256,128,1024,1024,32) #0
gcm_decrypt_and_verify:"84dd53ce0146cb71c32776915c6e8294f88f0ac9e19981f49787b53cdbe66077d50ac0f645746b7e97e18d31b5537ae417f7:72b963dda4030768579694c56ef092408f85a0d710ac6a54746bf1e7a5e07606993683257da90:0f2d45ec9c7f17131f7f17b6b7958e669ac4ece297f1dacfde902cd3048056d7f6d3f6d363f05f0f4ecf452db7c93126d2be2236fd4d0e27b89d8ee94f65a006d953c8ec4353a51b6b29db2:64:bbd8e883c900f5c85:"66dfbb5f3d1a3991813711926db2175a13c2de152e59734af34949d8b2d63db4e5f60326b5f3262fd7f2973616af693c0e3c33414f546234695916d5792133b4a24c7c4c3eb297c712b72ab6d2d68b3875f8fe4b7c30a8171bf7af1ae2f39957568faacda2ea9213f3f57998b9e4513f687bd3f5a9d93e847e78359:0

GCM NIST Validation (AES-256,128,1024,1024,32) #1
gcm_decrypt_and_verify:"9bb36fe25e96a075a6e2c3bb43b5877697ebe379df51238eda3fa0e3b95ca0e:"fba3a4be643c10343251c6f0745a5a43499463f262ca0a4792e9b47808684b30ae3eae3f2696f60ca0ea31c5f708b355e15145f7c76e4a3b7138ae3685500f3fa2c669c345f09a36a89c912133777474ec4b0f0e1049bd534761b3beef3ce3671698263c67056cbb1aa03868e23f8869ac7b8015c26af9e407949662f6b2:0x90a1bca52f30afab03670d03f3eab0:3cea8a30f2e6c5a3c71088f8d0ace0a63a53477ac3e3cd3a43d524499e5627a400625c83b608e50847f2752ec221af851c7df2b5bf7f4ac3d3a401547f97c6928551a08d32876a6402f807272d7387f59a1a676587b902519f103ed3cacdb6bf9e0794ae36d68b9d28de37e4028de0778841f356ac044:32:"b1eccccb9f:FAIL":0

GCM NIST Validation (AES-256,128,1024,123)

gcm_decrypt_and_verify:"ca264e7caeced56ae31c8f8b8ddee9529753a6299e760ca1e93cf3b3de8e9:8d03c6f6ac31182ad3ef32e8c2e3b342ae7f8d651a0afabff07e18e00524af84be421bd4181b4d3d82d4aae60832e43a6c4e0691184425b37320798f8e65c889b306463611d79e3e342076837443c375f6336ed770f7507b0c7d2b4d348a4cd754d0f0c3e458f79a18313ea2d2bace502a4de147d3041b790a0471f:17:4763a4e37b806af54f1069f8d6c3571:070daeb37a66eb15f3d6451176f3a707a302da696680e825377e621f71610d1fc9e59122da5b85f83b24c787b31dcd6b
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508d41e22c09b5c43693d072869601fc7e3f5a51db3bc6508e8d095b9130f6baf72a043f3a432ce68b7de06c1379e6bab51a48823b7676205b1b4707dce3201eb36456e3682425eb011a":32:"3105ddbb":"FAIL":0

-----BEGIN ENCRYPTED PRIVATE KEY-----

MIIFCzA9BqkhqiG9w0BBQowMDAbBqkhqiG9w0BBQowDgQIE+ix5z79hVACAggAMBEGBsOAWhBArjWP2/Sir7cwSCBMgUgn14/ZG3jijd1TZShsbKzxQ9b9tID1URm8FBTFTMk8R1oawaX2mfx1/eULvKHIwpytYOYQ42pyOdf2qdn8ile+8v2GLpyGcLiwGbDtr/cTeZvW70iqnII/EirPUPTuadsRK5BjfMjGm5V5c58fnTQztAfAmImlVKnqC6ACKCbmlbEqCFGBLRGqV8sOWCW+JaR5JJNdTFpVJzJqRf1919GfSISj0NWgqj3VAY89b8EATZajyvoBCwRABDNSdRhgjx7ZEVz8c6pNK7C6ZXEjXeWc12ZvkzjlUuafZ57BkvkgzLzfEntrZbQ2mQddDXZP9ICykP6D8W87Eeqg8yoxoFioOm0edj7AVZ3xbspxUuHUuYdLNXZtskYhL0bZ3sL8oVua1K+66/N0TIMsNDR4KSJmuRausXf1W1Osh5B1zvn2jzkCpwf5s5d7UeOny3/Z3R8B71EuaXO4r21eBrG6ff9VwewUgUDH3Y1IJErVcVfnnXVhuTOePTrj0vdtTTguzDU4/YFcpED5kjoqNXShJbgjht5W5g3YGTvRlyWgKbOska3euC17izP0kyy38JHLLKQXqj6dxseTIClIcpBDX3jgU7jHMI/XOlpCJeUemRrPLWb0vezX9oW0weE/efDZeyYyo2K2JDIUFfL6DfUqpcYjeB1M+wbqs055ndXTHvYi2/j73z0owCl1WwKZh/WODTjYXksi0oiLz7pHFaPOMrYwCCKTwQhYnqOZXZipfOFCuUJ4KDzgyKdvU7XLPnh4yOJlYAzXoi+bjG45QHtS8toooOGFDGz26vFVYoYAQsiqLOnXvQvUyPhZBSZ78vqlhXHPw954AhpUQk4mlLjnexUIGjHzQxbfNNWn7mTMBqGJ6B1Vjkv9KOC4KLe/JMfEZD+Sw5n+5jQy8667YOFIv+Hqnm041MS8jCDj4qmMuLWRvKvYBL5bsCn0u0eD+u+Ted xoDn8m6y10Z4RrPrcQ0P700+DbhrDwWyQH19kaNF76SrDSBNBOUwiGBbgN4U9rPbzataATA/X9y5+qCCFLE/wcMLcELH3tnRCU017Fx+APmrasyBiYd9uUlq5WCaw3p0EdPfQ6n+0832U0yjvWlVYLDU5jgw0VbW41o2SW7QCa7/QTQ94p4PEAYi2MfPYYKOR07Eoh+iUOHesesc8UDb6x4I75BChuLWZ7nmwogz8Z0+TWMuzyMc1J1aZ24hN9U5H6F5QqaZhAcqoxTqffQXIDARGfts1TTRn0/RQbxyObEqGeMHPXIxDzvImldB60RG4EBpDFUPWf3Mhx4AG3bGBPjUXhNlCCMIdMld49d0lfJ3nF0nvJshemlOY2U6qfBEznZn50rju+uUNhvgKQKhs9yIym/K+KUVZnwJ4ywGFKXysVqQQqfn7hbBnYQLkgLL9O9yJkgz/RhEMLC0dKtg6v6ELYJjVWnkJGTIMkp5a8ID48qwRmFjx+rv5y9Mv9ePSUBlizOuddsXycJpGsu+AmH20cTPXkwxtYtcu49eLrGoX7ER/mz/d2qFryMK3oUBHJBlf0kmMnzwfgHNveXAPoSbf1rX39652UWud7CxcOrIaA=

-----END ENCRYPTED PRIVATE KEY-----

-----BEGIN X509 CRL-----

MIIBqzCBlDANBgkqhkiG9w0BAQUFADBdMQswCQYDVQQGEwJOTDERMA8GA1UEChMIUG9sYTUtOxGwT-GTA8Xb8mgNVMABTFEBvgyFvU1NIMFRlc3QgQ0EXDTEExMlDEmWxMqxOVOXaDTExMDLYMDEmxMqXOVQxOVoWDASgAEFBx0wMTAyMT1txNDQ0MDdaMBICAQXMQXDTEXMDIXmJeQ0DNAwMQX0DUEDQYJoZLhvcNAQFEBQDggEBAgEAPlXcmIPEbY1U0+/SVQFtrjArZ94QnQdoan4t29dfi8MdTxj+z9/KyWiNoGwOcWjp9/2GQQsZhQLOBr0fDfYd67CtWvFvH/Qz2S8FgRcrQ8V7uvjIM33Q2yEsQkgMjIM7rE51C972vUWku/NKq8bnN9W/tWxZSFvTxpv2024a0ILIuPdOCAlNly8FSFvB2/52IN2uR6qRFizDexMEDScKgpHuJzGSJiaNhIm5LQYFJqPBQxU12tdDgcpxGhT10y4Qre+Ub8jw+yVml3sissw59kOSmkWB06lAmRC215JAMok3YQ5Q5xRNXCR8EjqPcjr+7+09a101+yiiaitq4bUJEA=

-----END X509 CRL-----

Base test mpi_read_write_string #1

Base test mpi_read_write_string #2:10:"128":10:"128":0:0

Base test mpi_read_write_string #3:10:"128":10:"128":0:0

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Base test mpi_read_write_string #3 (Read zero)
mpi_read_write_string:10:"0":10:"0":100:0:0

Base test mpi_read_write_string #3 (Negative decimal)
mpi_read_write_string:10:"-23":10:"-23":100:0:0

Base test mpi_read_write_string #3 (Negative hex)
mpi_read_write_string:16:"-20":10:"-32":100:0:0

Base test mpi_read_write_string #3 (Negative decimal)
mpi_read_write_string:16:"-23":16:"-23":100:0:0

Test mpi_read_write_string #1 (Invalid character)
mpi_read_write_string:10:"a28":0:"":100:POLARSSL_ERR_MPI_INVALID_CHARACTER:0

Test mpi_read_write_string #2 (Illegal input radix)
mpi_read_write_string:19:"a28":0:"":100:POLARSSL_ERR_MPI_BAD_INPUT_DATA:0

Test mpi_read_write_string #3 (Buffer just fits)
mpi_read_write_string:16:"-23":16:"-23":4:0:0

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

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":100:0:0

Test mpi_read_write_string #7
mpi_read_write_string:10:"56125680981752282334141896320372428949061396369355639252081601788211113506041169768270549831951204904051669882782920968080069408739749795845270734810126360163539134623765555672001983118736499358790195257307830896531678277717924":16:"0941379d00fed1491fe15df284dfde4a142f68aa8d412023195cee66883e6290ffe703f4ea5963bf212713e46b107c0918b26edcd955adac418bf4918e2889af48e1099d51380c8e5c26ac1e158b52620e33ba8692f893efbb2f958b4424":200:0:0

Base test mpi_read_binary #1
mpi_read_binary:0941379d00fed1491fe15df284dfde4a142f68aa8d412023195cee66883e6290ffe703f4ea5963bf212713e46b107c0918b26edcd955adac418bf4918e2889af48e1099d51380c8e5c26ac1e158b52620e33ba8692f893efbb2f958b4424":10:"56125680981752282334141896320372428949061396369355639252081601788211113506041169768270549831951204904051669882782920968080069408739749795845270734810126360163539134623765555672001983118736499358790195257307830896531678277717924":75555672001983118736499358790195257307830896531678277717924

Base test mpi_write_binary #1
mpi_write_binary:56125680981752282334141896320372428949061396369355639252081601788211113506041169768270549831951204904051669882782920968080069408739749795845270734810126360163539134623765555672001983118736499358790195257307830896531678277717924:0941379d00fed1491fe15df284dfde4
Test mpi_write_binary #1 (Buffer just fits)
mpi_write_binary:16:"123123123123123123123123123":"0123123123123123123123123123":14:0

Test mpi_write_binary #2 (Buffer too small)
mpi_write_binary:16:"123123123123123123123123123":"123123123123123123123123123":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":"01f55332c3a48b910f9942f6c914e58bef37a47ee45cb164a5b6b8d1006bf59a059c21449939ebebdf517d2e1dbae88010d7b1f141e997bd6801ddec9d05910f4f2de2b2c4d714e2c14a72fc7f17aa428d59c531627f09":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:"56125680981752282334141896320372489490613963693556392520816017892111350604111697682705498319512049040516698827829207680806940873974979584525707348101263601653913462376755556720019831187364993587901952757307830896531678727717924":16:"data_files/mpi_write":0

Base test mpi_lsb #1
mpi_lsb:10:"56125680981752282334141896320372489490613963693556392520816017892111350604111697682705498319512049040516698827829207680806940873974979584525707348101263601653913462376755556720019831187364993587901952757307830896531678727717924":16:"data_files/mpi_write":0

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:"561256809817522823341418963203724894906139636935563925208160178921113506041116976827054983195120490405166988278292292076800694087397497958452707348101263601635391346237675556720019831187364993587901952757307830896531678727717924":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:"-643808006803554439230129854961492699151386107534013432918073439524138264842370630061369715394
7391340909229373325903847203971333359695492562322620979036686633213903952966175107096769180017
646161851573147596390153"10:"56125680981752282333498088313356893505138338388548982166463178
457733717119362424318136005466967841045532911243455529427170840035418459486412994014504308676
0031292483340068923506115878221189886491132772739661669044958531131327771"10:"561256809817522
82334418963203724894906139636935563925208160178921113506041116976827054983195120490405166988
278292920768080069408739749795845270734810126360163539134623767555567200198311873649935879019
52757307830896531678727717924"

Test mpi_add_abs #2 (add to first value)
mpi_add_abs_add_first:10:"123123":10:"246246"

Test mpi_add_abs #3 (add to second value)
mpi_add_abs_add_second:10:"123123":10:"246246"

Regression mpi_add_abs (add small to very large MPI with carry rollover)
mpi_add_abs:16:"FFFFFFFFFFFFFFFFFFFFFFFFFFFF8":16:"08":16:"10000000000000000000000000000000"

Regression mpi_add_abs (add small to very large MPI with carry rollover)
mpi_add_abs:16:"08":16:"FFFFFFFFFFFFFFFFFFFFFFFFFFFF8":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:"203956878356401977405765866929034577280193993314348263094772646453283062722701" 2776329366160631440881731323728826771238795387909400158506356733832827915494996983660719067664403 037074217117805690872972848149112022263321448761833763262510235748216479733992961249917319836 2193042742802438010401500563790123";"53187228905420418418508473473751333994083036139821308 566452994493095217860604584887712914782038799642817556422282047858641412075324629363398341394 1240197538705794646595487324365194792281194730922739935805879465716596780844841526038810941 7699559481330282423006175212868901293560051833646881436219:"7358291674106061615908560 13041679766884976072964791197400721113842352413287417265100657638835320846014879371110881909972 567991693262124290717246769155647503707186655336192736143941911062788034585812214269261025090 38045542678604791159564668998643528806263534149325837971432443181537363155848647445226342"

Test mpi_add_mpi #2
mpi_add_mpi:10:"64380800680355443923012985849614926699151386107534013432918073439524138264842370 630061369715394739134090922937332590384720397133335965949256322620979036686633213903952966175 1070967691800176461161851573147569390153";"56125680981752282334988083135689355015138383388659 48998216646317845773371711936242318136054566967841045523911243552942717084003541384549846142 994015403086766003129248334006892350611587822118988491132777293616960494958311327771":10;"56125680981752283341418963203724894906139636935563925208160178921113506401116976827054983195 120490405166988278292920768080069408739749795845270734810126360163539134623767555567200198311 87364993587901952757307830896531678727717924"

Test mpi_add_int #1
mpi_add_int:10:"2039568783564019774057658669290345772801939933143482630947726464532830627227012 776239":9871232:10;"2039568783564019774057658669290345772801939933143482630947726464532830627227012 7022647561"

Test mpi_add_int #2
mpi_add_int:10:"2039568783564019774057658669290345772801939933143482630947726464532830627227012 776239":9871232:10;"20395687835640197740576586692903457728019399331434826309477264645328306272270095 097"

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:"FFFFFFFFFFFFFFF":16:"01":16:"FFFFFFFFFE":0

Test mpi_sub_abs #2
mpi_sub_abs:16:"FFFFFFFFFFFF0":16:"01":16:"FFFFFFFFEFE":0

Test mpi_sub_abs #3
mpi_sub_abs:16:"FF00000000":16:"0F00000000":16:"F000000000":0

Test mpi_sub_abs #4
mpi_sub_abs:16:"FF00000000":16:"0F00000001":16:"EFFFFFFFFF":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 subtraction)
mpi_sub_mpi:10:"5":10:"-7":10:"12"

Test mpi_sub_mpi #1
mpi_sub_mpi:10:"5318722890542041841850847343751333399408303613982130856645299464930952178606045848877129147820387964281755642228204785846141207532462936339834139412401975338705794646595487324365194792822189473092273993580587964571659678084484152603881094176995594813302284232006001752128168901293560051833646881436219":10:"2039568783564019774057658669290345772801939933143482
Test mpi_sub_mpi #2 (Test for negative result)

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Test mpi_sub_int #1
mpi_sub_int:10:"2039568783564019774075658669290345772801939933143482630947726464532380627227012776329":-
9871232:10:"203956878356401977740576586692903457728019399331434826309477264645323806272270226476351"
Test mpi_shift_l #1
mpi_shift_l:10:"6583554691173355016451608405238961461880256029834598831972039469421755117818011365349481443893195731640311168918769144694140678869609898392997540332195117465344344350088880118042764943201875870917468833709791733282363323948005998269792207":37:10:"904878205486390206919223046197230763504096161011988487223190678642804168382367856686134531865643066983017249846286450251272364365605022759009439437595355052945305915597216553305054387349553405261454769882501711814049667182892597433788836409819112704"
Test mpi_shift_r #4
mpi_shift_r:16:"FFFFFFFFFFFFFFFFF":63:16:"01"

Test mpi_shift_r #4
mpi_shift_r:16:"FFFFFFFFFFFFFFFFF":64:16:"00"

Test mpi_shift_r #6
mpi_shift_r:16:"FFFFFFFFFFFFFFFFF":65:16:"00"

Test mpi_shift_r #7
mpi_shift_r:16:"FFFFFFFFFFFFFFFFF":128:16:"00"

Base test mpi_mul_mpi #1
mpi_mul_mpi:10:"5":10:"7":10:"35"

Base test mpi_mul_mpi #2
mpi_mul_mpi:10:"-5":10:"7":10:"-35"

Base test mpi_mul_mpi #3
mpi_mul_mpi:10:"5":10:"-7":10:"-35"

Base test mpi_mul_mpi #4
mpi_mul_mpi:10:"-5":10:"-7":10:"35"

Test mpi_mul_int #1
mpi_mul_int:10:"203956878356401977405765866929034577280193999331434826309477264645328306227012
776329":9871232:10:"20130566425182260423107301013762784835472391301238063380553878039433427380
63359782107667328":==

Test mpi_mul_int #2 (Unsigned, thus failure)
mpi_mul_int:10:"203956878356401977405765866929034577280193999331434826309477264645328306227227012
776329":9871232:10:"20130566425182260423107301013762784835472391301238063380553878039433427380
63359782107667328":==
776329":9871232:10":- 20133056642518226042310730101376728483547239130123806338055387803943342738063359782107667328": !=

Test mpi_mul_int #3
mpi_mul_int:10":- 2039568783564019774057658669290345772801939933143482630947726464532830627227012776329":9871232 :10":- 20133056642518226042310730101376728483547239130123806338055387803943342738063359782107667328": !=

Test mpi_mul_int #4 (Unsigned, thus failure)
mpi_mul_int:10":- 2039568783564019774057658669290345772801939933143482630947726464532830627227012776329":-9871232:10":20133056642518226042310730101376728483547239130123806338055387803943342738063359782107667328": !=

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:"20133056642518226042310730101376728483547239130123806338055387803943342738063359782107667328":10:"34":10:"59214872477994782477384500298165524951609526853303512758986434717480 419817833411238460803":10:"26":0

Test mpi_div_mpi #2
mpi_div_mpi:10:"47622159917942488766951582923122326393934213568179160584254029321038144633323 941248706453752344291253519236384511615423646518414759967981273424891410002781967962186252 5833111157081281671371622069195145878998354729647025952837516324649656913485411611297312678 9558018995369375774768196678610530634329206071315727948826276092545739432005962781562403795455 1624831593625852821428265005441711508019780033575787158800459597545783682597716912586634218449 699877076762316768127816074857766799018626179199776188490087103869146122906791440101822594139 648973454716256383294690817576188762":10:"28911710017320205205661678207253132346135325916305485 798627748714508107684584649352134869325353001124398816014086342487388957919482441678672369291 95069623121858299144892934789476574725314613672964148506932365342469293027888892345006054646 5883490944265174851036817433970984747733020522259537":10:"164715818917017947647040097190573499 962702399493542268812975037240586099924712715366967465847817803753916334313555737769452388 715120268328106262261643463288074076693660299262214153835608143388284496422653778227597680114 067570610635247681405678673502085544393432320410551341675119078050953":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":13:10:"76":10:"12":0

Base test mpi_div_int #2 (Divide by zero)
mpi_div_int:10:"1000":0:10:"76":10:"12":0

Test mpi_div_int #1
mpi_div_int:10:"1000":13:10:"76":10:"12":0

Test mpi_div_int #2 (Divide by zero)
mpi_div_int:10:"1000":0:10:"76":10:"12":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":0:10:"0":0

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

Base test mpi_mod_int #3
mpi_mod_int:10:"-1000":13:12:0

Base test mpi_mod_int #4 (Negative modulo)
mpi_mod_int:10:"-1000":13:12:0

Base test mpi_mod_int #5 (Negative modulo)
mpi_mod_int:10:"-1000":13:12:0

Base test mpi_mod_int #1
mpi_mod_int:10:"1000":13:12:0
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:"1002":2:0:0

Base test mpi_exp_mod #1
mpi_exp_mod:10:"23":10:"13":10:"29":10:"":10:"24":0

Base test mpi_exp_mod #2 (Even N)
mpi_exp_mod:10:"23":10:"13":10:"30":10:"":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:"":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:"433019240910377478217373572959560109819648647016096560523769010881172869083338
285573755674557395862965095016483867813043663981946477698466501451832407592327356331263124555
1377323932842285782144928753919588632679050799198937132922145084847:10:57815383279778288975
15090916677840765925045837964582306204294294615767575490910073628008613977550546382774775
570888130029763571528699574771758322893953596023446423088257361593038497910037910291567483866
75537155981117187677605949194569711354184113721:10:583137007797726923956891216216024405240440
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9473045269984227393580104814200483433036948381387661877257868908324806164443920916937870396
36316845512292127097865026290173004860736:0

Test mpi_exp_mod (Negative base)
 mpi_exp_mod:10:"-10000000000":10:"10000000000":10:"99999":10:"99998":0

Test mpi_exp_mod (Negative base)

mpi_exp_mod:16":-
9f13012cd9a272fb8a6e88792dfde4f7fd61aaa43a00971f081cc60ca277059d5c37e89652e2af2585d281d66ef6a9d38a117e9608e9e7574cd142dc55728838a2161dd56db94740d4c1da2d5df15a908ee2eb886eaa890f23be16dec59386663a12f1a1bab32543a1ae835fe3df89b996a6a6f7782f458ef9a37ef1f84a03045c4676ab55291a94c2228ea15448ee968626b998":16:"40a54d1b9e86789f06d9607fbd5872d64867665c73ee9abb545fc7a785634b354c7ba5b962ce8040cf45f2c1f3d36592ee5ede17534c8fc2e85c815e8df1fe7048d12c90ee31b88e68a081f1f170d8ce5f403521e9400083dbea73a4290314dca7949c2000d597088e0c39a601488f96273bb2e8083bd0390a4e00b9b3":16:"eeaf0ab9adb38dd69c33f80afa8fc5e86072618775f3c09be9a23149c9525676674d7f496e8a1d3833b4813d6926c0e0d5d8e250b98e48e495c1d089ad1d50d77b46154d66bece8e4ad69b15d4982559b297bcf1855c529566660e57ec68edbc3c05726cc02f4cbf4976ea9a9df5138fe8376435b9f6c1d2fc0eb06e3":16":"1c1acc7199e1b90f9b4a844f1e12c19f00ee5486c5d32b21c647d48b601ad8eb9e99cd0b5b4f3d4d4b4227a2b5695c1a7cceb9d5fa8fa60376047953ce73979d0aeeb7465e14e820734f84aa52ad0fc66701cbcb991d57715806a11531268e1e83dd48288c72b424a62879e9e4e5cc4db0dd67614acecc23b0124a5776d365c89483":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:"43301924091037747821737357295956019891964864701609656052376901088117286908333828557375657455739586296509516483867813043663981946477698466501451832407592327356331263124551377323938242285782144928753919588632679050799198937312922140584847":10:"57815382379778288971509091667784076579250458379645823062042492461576758256757490910073628006813977750546382774775570888130029763571528699574717583228399359602344462308257361593038497910037910291565748386675537155981171876760594919456971354184113721":10:"1"

Base test mpi_inv_mod #3
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 #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:"aa4df5cb14b4c31237f98bd1f527c283c2d0f3eec89718664ba33f9762907c":16:"fffbd660b94412ae61ead9e2906a344116e316a256fd387874c6c675b1d587d":16:"8d6a5c1d7adeae3e94b9bcd2c47e0d46e778bc8804a2cc25c02d775dc3d05b0c":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:"8271315072216545639378326866962009559583569443798365884087003658612416818696779680911774904743076882582285704243272282096779098498192459819306321073968735177531164565305635281198148032612029767584644305912099":0

Test mpi_is_prime #2
depends_on:POLARSSL GENPRIME
mpi_is_prime:10:"827131507221654563937832686696200995595935694437983658840870036586124168186967796809117749047430768825822857042432722828096779098498192459819306321073968735177531164565305635281198148032612029767584644305912001";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:"8451004000152152934331135470251":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:"203956873564019774057568669290345772801939933143482630947726464532830627227012776329366106314408817331237288267712387953870940015830656733832827915449969836607190676644037074217117805690872792848149112022286332144876183376326512083574821647933992961249917319836219304274280243803104015000563790123":0

Test mpi_is_prime #10
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10:"53187228905420418418508473437513339940830361398213085664529946493095217860604584887712914782083879964281755642282047858461412075324629363339341394124019753387057946465954873243651947928228189473092273993580587964571659678084484152603881094176995594813302284232006001752128168901293560051833646881436219":0

Test mpi_is_prime #11
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10"31970530470114153915572013720097464666792526059405792539680974929469783512821
793995613718943171723765238853752439032835981558829038528214925658918372196742089464683960239
919950882355844766055365179937610326127675178857306260955550407044463370239890187189750909036
833976197804646589380690779463976173":0

Test mpi_is_prime #12
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10"200603822195324624393516294012917959872967449320074999667103434371470616000652
036570099912021332527788252300901905236578801044680456930305350440933538867383130165841118050
781326291059830545891570648243241795871":0

Test mpi_is_prime #13
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10"827131507221654563937832686696200995595835694437983658840870036586124168186967
796809117749047430768825822857042432722828096779098498192459819306321073968735177531164565305
635281198148032612029767584644305912099":0

Test mpi_is_prime #14
depends_on:POLARSSL_GENPRIME
mpi_is_prime:10"96427404724841879714509098315719798085507896688227649257288532954904112655338
43936130621389856951659374426739175403330645125919199692703323878557833023573312685002670662
846477592597659826113460619815244721311":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"

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:

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xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
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    <Configuration>Debug</Configuration>
    <Platform>Win32</Platform>
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    <Platform>x64</Platform>
  </ProjectConfiguration>
</ItemGroup>
Open Source Used In HyperFlex HX Data Platform 5.0(2a)  7330
DES Encrypt OpenSSL Test Vector #6
des_encrypt_ecb:"1111111111111111":"0123456789ABCDEF":"8A5AE1F81AB8F2DD"

DES Encrypt OpenSSL Test Vector #7
des_encrypt_ecb:"0000000000000000":"0000000000000000":"8CA64DE9C1B123A7"

DES Encrypt OpenSSL Test Vector #8
des_encrypt_ecb:"FEDCBA9876543210":"0123456789ABCDEF":"ED39D950FA74BCC4"

DES Encrypt OpenSSL Test Vector #9
des_encrypt_ecb:"7CA110454A1A6E57":"01A1D6D039776742":"690F5B0D9A26939B"

DES Encrypt OpenSSL Test Vector #10
des_encrypt_ecb:"0131D9619DC1376E":"5CD54CA83DEF57DA":"7A389D10354BD271"

DES Encrypt OpenSSL Test Vector #11
des_encrypt_ecb:"07A1133E4A0B2686":"0248D43806F67172":"868EBB51CAB4599A"

DES Encrypt OpenSSL Test Vector #12
des_encrypt_ecb:"3849674C2602319E":"51454B582DDF440A":"7178876E01F19B2A"

DES Encrypt OpenSSL Test Vector #13
des_encrypt_ecb:"04B915BA43FEB5B6":"42FD443059577FA2":"AF37FB421F8C4095"

DES Encrypt OpenSSL Test Vector #14
des_encrypt_ecb:"0113B970FD34F2CE":"059B5E0851CF143A":"86A560F10EC6D85B"

DES Encrypt OpenSSL Test Vector #15
des_encrypt_ecb:"0170F175468F5E6":"0756D8E0774761D2":"0CD3DA020021DC09"

DES Encrypt OpenSSL Test Vector #16
des_encrypt_ecb:"43297FAD38E373FE":"762514B829BF486A":"EA676B2CB7DB27A"

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":"0A2AAEAE3FF4AB77"

DES Encrypt OpenSSL Test Vector #20
des_encrypt_ecb:"1F08260D1AC2465E":"6B056E18759F5CCA":"EF1BF03E5DFA575A"

DES Encrypt OpenSSL Test Vector #21
des_encrypt_ecb:"584023641ABA6176":"004BD6EF09176062":"88BF0DB6D70DEE56"
<table>
<thead>
<tr>
<th>Test Vector</th>
<th>DES Encrypt ECBF</th>
<th>DES Decrypt ECBF</th>
</tr>
</thead>
<tbody>
<tr>
<td>#22</td>
<td>025816164629B007</td>
<td>0000000000000000</td>
</tr>
<tr>
<td>#23</td>
<td>49793EBC79B3258F</td>
<td>471E1E7F95D9040A</td>
</tr>
<tr>
<td>#24</td>
<td>4FB05E151AB73A7</td>
<td>0000000000000000</td>
</tr>
<tr>
<td>#25</td>
<td>A9E95D6D4CA229BF</td>
<td>0000000000000000</td>
</tr>
<tr>
<td>#26</td>
<td>018310DC409B26D6</td>
<td>0000000000000000</td>
</tr>
<tr>
<td>#27</td>
<td>1C587F1C13924FEF</td>
<td>0000000000000000</td>
</tr>
<tr>
<td>#28</td>
<td>0101010101010101</td>
<td>0000000000000000</td>
</tr>
<tr>
<td>#29</td>
<td>1F1F1F1F0E0E0E0E</td>
<td>0000000000000000</td>
</tr>
<tr>
<td>#30</td>
<td>0123456789ABCDEF</td>
<td>0000000000000000</td>
</tr>
<tr>
<td>#31</td>
<td>1CS87F1C13924FEF</td>
<td>0000000000000000</td>
</tr>
<tr>
<td>#32</td>
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<td>0123456789ABCDEF</td>
<td>0000000000000000</td>
</tr>
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<td>FEDCBA9876543210</td>
<td>0000000000000000</td>
</tr>
<tr>
<td>#35</td>
<td>8CA64DE9C1B123A7</td>
<td>0000000000000000</td>
</tr>
<tr>
<td>#36</td>
<td>7359B2163E4EDC58</td>
<td>0000000000000000</td>
</tr>
<tr>
<td>#37</td>
<td>3000000000000000</td>
<td>0000000000000000</td>
</tr>
</tbody>
</table>
DES Decrypt OpenSSL Test Vector #4
des_decrypt_ecb:"1111111111111111":"F40379AB9E0EC533":"1111111111111111"

DES Decrypt OpenSSL Test Vector #5
des_decrypt_ecb:"0123456789ABCDEF":"17668DFC7292532D":"1111111111111111"

DES Decrypt OpenSSL Test Vector #6
des_decrypt_ecb:"1111111111111111":"8A5AE1F81AB8F2DD":"0123456789ABCDEF"

DES Decrypt OpenSSL Test Vector #7
des_decrypt_ecb:"0000000000000000":"8CA64DE9C1B123A7":"0000000000000000"

DES Decrypt OpenSSL Test Vector #8
des_decrypt_ecb:"FEDCBA9876543210":"ED39D950FA74BCC4":"0123456789ABCDEF"

DES Decrypt OpenSSL Test Vector #9
des_decrypt_ecb:"7CA110454A1A6E57":"690F5B0D9A26939B":"01A1D6D039776742"

DES Decrypt OpenSSL Test Vector #10
des_decrypt_ecb:"0131D9619DC1376E":"7A389D10354BD271":"5CD54CA83DE57DA"

DES Decrypt OpenSSL Test Vector #11
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:"0170F175468FB5E6":"0CD3DA020021DC09":"0756D8E0774761D2"

DES Decrypt OpenSSL Test Vector #16
des_decrypt_ecb:"43297FAD38E373FE":"EA676B2CB7DB2B7A":"762514B829BF486A"

DES Decrypt OpenSSL Test Vector #17
des_decrypt_ecb:"07A7137045DA2A16":"DFD64A815CAF1A0F":"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
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des_decrypt_ecb: "1F0826D01AC2465E": "EF1BF03E5DFA575A": "6B056E18759F5CCA"
```

DES Decrypt OpenSSL Test Vector #21
```
des_decrypt_ecb: "584023641ABA6176": "88BF0DB670DEE56": "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": "072D43A077075292"
```

DES Decrypt OpenSSL Test Vector #25
```
des_decrypt_ecb: "49E95D6D4CA229BF": "5A6B612CC26CCE4A": "02FE55778117F12A"
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DES Decrypt OpenSSL Test Vector #26
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des_decrypt_ecb: "018310DC409B26D6": "5F4C038ED12B2E41": "1D9D5C5018F728C2"
```

DES Decrypt OpenSSL Test Vector #27
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des_decrypt_ecb: "1C587F1C13924FEF": "63FAC0D034D9F793": "305532286D6F295A"
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DES Decrypt OpenSSL Test Vector #28
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des_decrypt_ecb: "0101010101010101": "617B3A0CE8F07100": "0123456789ABCDEF"
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DES Decrypt OpenSSL Test Vector #29
```
des_decrypt_ecb: "1F1F1F1F0E0E0E0E": "DB958605F8C8C606": "0123456789ABCDEF"
```

DES Decrypt OpenSSL Test Vector #30
```
des_decrypt_ecb: "E0FEE0FEF1FEF1FE": "EDBFD1C66C29CCC7": "0123456789ABCDEF"
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DES Decrypt OpenSSL Test Vector #31
```
des_decrypt_ecb: "0000000000000000": "355550B2150E2451": "FFFFFFFFFFFFFFFF"
```

DES Decrypt OpenSSL Test Vector #32
```
des_decrypt_ecb: "FDDDDDDDDDDDDDDDD": "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": "FFFFFFFFFFFFFFFF"
```

DES-CBC Encrypt OpenSSL Test Vector #1
```
des_encrypt_cbc: "0123456789abcdef": "fedcba9876543210": "37363534333231204E6F77206973207468652074696D6520": "ccd173ffab2039f4acdbafddfd8a1eb468e91157888ba68": "0"
```

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 7337
DES-CBC Decrypt OpenSSL Test Vector #1
des_decrypt_cbc:"0123456789abcdef":"fedcba9876543210":"ccd173ffab2039f4acd8aefddfd8a1eb468e91157888ba
68":"37363534333231204E6F77206973207468652074696D6520":0
3DES-ECB 2Key Encrypt OpenSSL Test Vector #1
des3_encrypt_ecb:2:"0000000000000000FFFFFFFFFFFFFFFF":"0000000000000000":"9295B59BB384736E"
3DES-ECB 2Key Encrypt OpenSSL Test Vector #2
des3_encrypt_ecb:2:"FFFFFFFFFFFFFFFF3000000000000000":"FFFFFFFFFFFFFFFF":"199E9D6DF39AA816"
3DES-ECB 2Key Decrypt OpenSSL Test Vector #1
des3_decrypt_ecb:2:"0000000000000000FFFFFFFFFFFFFFFF":"9295B59BB384736E":"0000000000000000"
3DES-ECB 2Key Decrypt OpenSSL Test Vector #2
des3_decrypt_ecb:2:"FFFFFFFFFFFFFFFF3000000000000000":"199E9D6DF39AA816":"FFFFFFFFFFFFFFFF"
3DES-CBC 3Key Encrypt OpenSSL Test Vector #1
des3_encrypt_cbc:3:"0123456789abcdeff1e0d3c2b5a49786fedcba9876543210":"fedcba9876543210":"3736353433
3231204E6F77206973207468652074696D6520":"3FE301C962AC01D02213763C1CBD4CDC799657C064ECF5
D4":0
3DES-CBC 3Key Decrypt OpenSSL Test Vector #1
des3_decrypt_cbc:3:"0123456789abcdeff1e0d3c2b5a49786fedcba9876543210":"fedcba9876543210":"3FE301C96
2AC01D02213763C1CBD4CDC799657C064ECF5D4":"37363534333231204E6F77206973207468652074696D65
20":0
DES-CBC Encrypt (Invalid input length)
des_encrypt_cbc:"0123456789abcdef":"fedcba9876543210":"37363534333231204E6F77206973207468652074696
D65":"":POLARSSL_ERR_DES_INVALID_INPUT_LENGTH
3DES-CBC 3Key Encrypt (Invalid input length)
des3_encrypt_cbc:3:"0123456789abcdeff1e0d3c2b5a49786fedcba9876543210":"fedcba9876543210":"3736353433
3231204E6F77206973207468652074696D65":"":POLARSSL_ERR_DES_INVALID_INPUT_LENGTH
Run through parity bit tests
des_key_parity_run:
DES Selftest
depends_on:POLARSSL_SELF_TEST
des_selftest:
643808006803554439230129854961492699151386107534013432918073439524138264842370630061369715394
739134090922937332590384720397133335969549256322620979036686633213903952966175107096769180017
646161851573147596390153643808006803554439230129854961492699151386107534013432918073439524138
264842370630061369715394739134090922937332590384720397133335969549256322620979036686633213903
952966175107096769180017646161851573147596390153643808006803554439230129854961492699151386107
534013432918073439524138264842370630061369715394739134090922937332590384720397133335969549256
322620979036686633213903952966175107096769180017646161851573147596390153643808006803554439230

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<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>

<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 Condition=""$(Configuration)|$(Platform)"=='Release|Win32'' Label="PropertySheets">
</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>
</ProjectReference>
</ItemDefinitionGroup>
<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;ole3 2.lib;oleaut32.lib;uuid.lib;odbccp32.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>%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
  </Link>
</ItemDefinitionGroup>
<Import Project="$(VCTargetsPath)\Microsoft.Cpp.targets" />
<ImportGroup Label="ExtensionTargets" />
</Project>
Certificate:
Data:
Version: 3 (0x2)
Serial Number: 2 (0x2)
Signature Algorithm: sha1WithRSAEncryption
Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
Validity
Not Before: Feb 12 14:44:06 2011 GMT
Not After : Feb 12 14:44:06 2021 GMT
Subject: C=NL, O=PolarSSL, CN=localhost
Subject Public Key Info:
Public Key Algorithm: rsaEncryption
RSA Public Key: (2048 bit)
Modulus (2048 bit):
ac:0e:78:e4:3a:3c:4ac:f3:3a:13:16:d0:5:a:e4:cd:
7a:3e:24:9a:fc:b6:34:ae:24:f5:77:e0:26:64:8c:
e8:0b:8a:4f:69:0c:b5:00:90:e1:da:82:10:66:7d:
7f:56:a8:1a:1e:44:18:0f:05:85:8b:da:8b:44:5e:
29:01:e5:90:0e:3f:27:ff:30:ce:84:4a:0e:ef:df:de:
c7:ce:7:6b:7:05:3d:7ace:02:3c:9a:1d:3e:0f:
69:39:5a:d3:0f:b0:de:59:2f:11:e7:f7:ea:12:01:
30:97
Exponent: 65537 (0x10001)
X509v3 extensions:
X509v3 Basic Constraints: 
CA:FALSE
X509v3 Subject Key Identifier:
X509v3 Authority Key Identifier:
Signature Algorithm: sha1WithRSAEncryption
gm+YT/5FuSqIZ/JI5Q57VMOVqSLEw6y6QQHSSBCOxh/CGhAL/BZ9A9afvPTril9OF
fxAfafKH1YP3uIKUDcms0d0gJqQoDmLafdfggd6dwULf3iQpDORgx800pbfj1
FEBuU8M5DqiH+eOxgEvIL0AhMnPa4mv1brVdlxS3CyojnxqPfecYxEhEYJWJdsF
aYKR5bUI1y1990aNA6T3EDRhImHs25Fc328XS2ZJKhNxciDruwi4EfpfQT+vukuOz00
hOW2BEMFLRfFe+732LNlGSRVNI536YhF8r4r7O1jrw9McX3hzbh00GAtcsXqy10k
hxC3x5ViqgZhdYygH/CIJHP2RC8ssp2RhZ/aDJu2Y18z8s9OXvcYv0ErmBAlxd/
lyfkEr/n8otDlkq7IR3jrMUz7AhCf/INjgqEBFo19+qH8+jmn0wL8LBH08vA
pc3qWluXOR1pbwXyAELO8wGhnJWL4WmY252S3i0Jn8Gf2KXewMRJs6StairjWD
1m0wWUVGSm5C08Rfon8=
-----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 14:44:07 2021 GMT
Subject: C=NL, O=PolarSSL, CN=PolarSSL Cert SHA512
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:d6:e1:3b:
07:67:0b:03:2f:af:20:ed:ff:33:8f:0b:ce:10:ee:
97:17:0b:13:0a:a7:6b:4a:8b:c1:47:30:fb:3a:8f:
c0:0e:35:7f:ff:20:f5:df:cd:69:2b:6a:00:7d:17:
f7
Exponent: 65537 (0x10001)
X509v3 extensions:
X509v3 Basic Constraints:
CA:FALSE
X509v3 Subject Key Identifier:
<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\dh_server.c" />
</ItemGroup>
<ItemGroup>
<ProjectReference Include="PolarSSL.vcxproj">
<Project>{46cf2d25-6a36-4189-b59c-e4815388e554}</Project>
</ProjectReference>
</ItemGroup>
<PropertyGroup Label="Globals">
<ProjectGuid>{17D1A1DA-6803-4AA1-A0DB-566E00D7593C}</ProjectGuid>
_KEYWORD>Win32Proj</Keyword>
<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>
</PropertyGroup>
<PlatformToolset>Windows7.1SDK</PlatformToolset>
<?xml version="1.0" encoding="utf-8"?>
<PropertyGroup Label="ExtensionSettings"/>

<Import Project="$(VCTargetsPath)\Microsoft.Cpp.props" />
<ImportGroup Label="PropertySheets" Condition="$(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>
  </ClCompile>
  <Link/>
  <SubSystem>Console</SubSystem>
  <ShowProgress>NotSet</ShowProgress>
  <AdditionalDependencies>%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
</ItemDefinitionGroup>

<PropertyGroup Condition="$(Configuration)|$(Platform) == "Debug|x64"">
  <PrecompiledHeader/>
  <WarningLevel>Level3</WarningLevel>
  <Optimization>Disabled</Optimization>
  <PreprocessorDefinitions>WIN32;_DEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
  <AdditionalIncludeDirectories>../include</AdditionalIncludeDirectories>
</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) == "Release|Win32"">
  <ClCompile>
    <PrecompiledHeader/>
    <WarningLevel>Level3</WarningLevel>
    <Optimization>Disabled</Optimization>
  </ClCompile>
  <Link/>
  <SubSystem>Console</SubSystem>
  <ShowProgress>NotSet</ShowProgress>
  <AdditionalDependencies>%(AdditionalDependencies);PolarSSL.lib</AdditionalDependencies>
</ItemDefinitionGroup>

<PropertyGroup Condition="$(Configuration)|$(Platform) == "Release|x64"">
  <PrecompiledHeader/>
  <WarningLevel>Level3</WarningLevel>
  <Optimization>Disabled</Optimization>
  <PreprocessorDefinitions>WIN32;_DEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
  <AdditionalIncludeDirectories>../include</AdditionalIncludeDirectories>
</PropertyGroup>
<PropertyGroup Label="UserMacros" />
<PropertyGroup Condition="$(Configuration)|$(Platform)=='Debug|Win32'">
  <LinkIncremental>true</LinkIncremental>
  <IncludePath>$\{VCInstallDir\}include;$\{VCInstallDir\}atlmfc\include;$\{WindowsSdkDir\}include;$\{FrameworkSDKDir\}include;</IncludePath>
</PropertyGroup>
<PropertyGroup Condition="$(Configuration)|$(Platform)=='Debug|x64'">
  <LinkIncremental>true</LinkIncremental>
  <IncludePath>$\{VCInstallDir\}include;$\{VCInstallDir\}atlmfc\include;$\{WindowsSdkDir\}include;$\{FrameworkSDKDir\}include;</IncludePath>
</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>
    <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>
<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>
    <GenerateDebugInformation>true</GenerateDebugInformation>
  </Link>
</ItemDefinitionGroup>
<ItemDefinitionGroup Condition="$(Configuration)|$(Platform)=='Release|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>
    <GenerateDebugInformation>true</GenerateDebugInformation>
  </Link>
</ItemDefinitionGroup>

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:5e:73:16:0c:64:11:48:04:ff:d6:e1:3b:
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07:67:0b:03:2f:a0:9e:ed:0:33:8f:0b:ce:10:ef:
97:17:0b:13:0a:7:6b:4:8:bc:1:47:30:fb:3a:8f:
ca:01:e:3:35:7:ff:fa:20:f5:dc:fd:69:b:2:6a: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
7c:+0:29:4a:38:0f:0d:da:4a:6f:8e:8:92:98:ad:0:2:60:a0:
9b:56:fd:93
-----BEGIN CERTIFICATE-----
MIIDPTCIAwIgAwIBAgIBDjANBgkqhkiG9w0BAQUFADA7MQswCQYDVQQGEwJOTDERMA8GA1UEChMIUG9sYXJTU0wxGTAXBgNVBAMTF3d3dy5leGFtcGxlLmNvbTBCCASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBALk8SsXIo46QF6SeUqpxdSZhgOfHtW2M/s6q2QSa3vhGtXHMDWGDQfSRA7S:Uic1dEcIy3daPMT1wcN8wMCQcE1vJG3vBGJ7wqJh2ajBhjGmM9LovA55eEXuUw3r421d6pGZs6HbB1Y5ZAdmVR7B633aR1AQ7Q3aRLkah9lu6wryovPpm:1xlaAd7xWg1C13h3xyOZa1bCSWvTs thankful for you.
sha1_hmac:20:"303132333435363738393a3b3c3d3e3f40414243"":"53616d706c65203233":"0922d3405faa3d194f82a45830737d5c6c675d24"  

HMCSHA-1 Test Vector FIPS-198a #3  
depends_on:POLARSSL_SHA1_C  
sha1_hmac:20:"505152535455565758595a5b5c5d5e5f606162636465666768696a6b6c6d6e6f707172737475767778797a7b7c7d7e7f808182838485868788898a8b8c8d8e8f909192939495969798999a9b9c9d9e9f0a1a2a3a4a5a6a7a8a9aabacadadefb0b1b2b3"":"53616d706c65203233"":"bcf41eab8bb2d80f3d05ca7cb092cefd81a3aa"  

HMCSHA-1 Test Vector FIPS-198a #4  
depends_on:POLARSSL_SHA1_C  
sha1_hmac:12:"701722737475767778797a7b7c7e7f808182838485868788898a8b8c8d8e8f909192939495969798999a9b9c9d9e9f0a":"53616d706c65203233"":"9e8a88ef268d8edc9e447204c7402e7c44037f6b5e5a8"  

HMCSHA-1 Test Vector NIST CAVS #1  
depends_on:POLARSSL_SHA1_C  
sha1_hmac:10:"7b10f4124b15c8e":"27dcb5b1daf60c3def3ef733d464ac6848bf71f682a46793b1790afa4feb100ca7aaf2f658f0e1d0ef42f1cdaf1f474afa2e79d53a0c42892e4d7b327cbe46b295ed8a3ba6ebcab3d4851687a6f812b79df2f6b20f11f6706f5301790aca99625aad7391d84f78043d2a0a239b1477984e1577bce9276064a71a1406b6012ca":"4ead12c2fe3d6e4a3acb"  

HMCSHA-1 Test Vector NIST CAVS #2  
depends_on:POLARSSL_SHA1_C  
sha1_hmac:10:"4fe9f9b092172a21b":"4ecb3a7c13659c22e5f113403dce4c23d181b63ce6bob59d367157fd05cab98384f92d4a42d5e87ce7eef1b1838af4696026c54233d484eebabe87f904d5546419f8567eaf2d32e6c2f3e62eb7682c6300052a4b07d9920b96f6585007deaee752562df1e3b01270889e1f3b3fe46e2d0f7dabac2d8e6cc0a2d0ca953425f":"564428a67b1e1924b5793"  

HMCSHA-1 Test Vector NIST CAVS #3  
depends_on:POLARSSL_SHA1_C  
sha1_hmac:10:"d1f0145578e4fb":"00d40f67b57914becc456a3e3201ef1464be319a8d188c02e157af4b54f9b5a66d67f898a9dbb19f63a80abaf6246d0135757215d2eb14a765def884011c49b257bbec2817f8c531f06e8138ce386d7a5ac31033de03a3fde6db7a9ff66ebd1cc46fb86e4a0013d20a3c2edf8fb828a4b70f7f104b1bf3f4462a66497ea":"56a665a7cdefe1019fc5"  

HMCSHA-1 Test Vector NIST CAVS #4  
depends_on:POLARSSL_SHA1_C  
sha1_hmac:10:"4e5ef77fd03a5b":"e59326464e3201d195e29f2a3446ec1b1c9ff31154e2a4d0e40ed466f1bc855d29f76835624af0127d29c9b1915939a04f6385a7e5d47a23ba9f128bd22f811e2a58dbb3f332ed3543b8285d5f41bd064fd64a341c22c4ed8b4490c99e6d6f059db4a052a6c83da7478e179a6f3839c6870ff8ca8b9497f9ac1d725fdda":"981c7a7a843b36a8fa6"  

HMCSHA-1 Test Vector NIST CAVS #5  
depends_on:POLARSSL_SHA1_C  
sha1_hmac:10:"b9d9ff8aa60be2be":"51be4d0eb37bab714f92e19e9d70390655b363e8c3d346a748245e731f437759eb8206412c8dab2ef4d3f6f80f41ff6ed499a454f4dcedb6e23ace1329b5e9e29bf875b38c31df6a546c595f35cc2192aa750679a851a65e0e839d73a8d8c598a610d237f7e78955213589d80ecf73b95b8586f96d17b6f51a71c3b8":"84633f95f040c8971478"
HMAC-SHA-1 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA1_C
sha1_hmac:10:"4a661bee6ed8fd21":":5ff6c744f1aab1bc2b9697d71f67541b83ec3c7079183b10a83f98a9ee251d4bac3e1cb581ca972aaded8ef7c2875af6fb49e91132f6c7e9742d45e53bc7e8eaa94b5b37a907b61086b42ced11088ac118934e385d96e9667df69cf66fa38c0fe34710b7ece91211b97e00aced31f022aa67263689928a1352f122233f1":":739df59333ac6694e55e"

HMAC-SHA-1 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA1_C
sha1_hmac:10:"1287e1565a57b547":":390ffddcc6171c11568d855b8f913e019bf4ed982ca9cd21ea730d41bdf3fccc0bc88ff48ba13a8f23debd96ec10337eb2a58ca72b0ae17bf0f333db25d1e360fa6918009c4294bd1215b5ced159a8f558c3d3c490eb7c3b9f887e8c98dbbb274a75373dc6b695a59abd0219529d88518a96f92abc0bcbdba985c388f1fbbcc9":":d78ddf08077c7d9e2ba6"

HMAC-SHA-224 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA2_C
sha224_hmac:14:"e055eb756697eec573fd3214811a97f":":3875840712ee42e4f5e4a027bd3f88cca7021b83a2ed503af69ef6c367bc1114fba40096e5947d736e19b7af3c68d95a4e3b8b073adbbb80f7e9dbbf82df400189dd874fdef9dd9b52c93e404589777256b7ba1508166b995cd5f0401268f5d702b76a5f9afef57b8768c8a3f3c14f9a4b3182b41d940e337d219b29ff":":40a453133361cc48da11baf616ee"

HMAC-SHA-224 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA2_C
sha224_hmac:14:"85e2558b55b1623835eb9632f7a57d":":ada76bb640be14326551701cf30e48a65e8ee80b44f0b9d4aa07b1844543b7844a621097fd99e5c573974858a935489996b260d617e1e9c9e5f3d413a33628054335ce65c26a29860ef111a63510966283101ec7686871d770b370737c4705983f9756b3005a3e94f92ecf6e7e42f5c2e15fa6bfe8718c0a50acc4e5717230":":81c783af538015ceef3c60095df53"

HMAC-SHA-224 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA2_C
sha224_hmac:14:"85d402822114d31abf75526e2538705":":802008d988cc2e2298b32879c51c751e1dd5558e2eabb8f158604297df6d072ce2261d6830b7ce6217b57c126f999476211d6161acd75d626da217e8174b80484e9dc6e04480a036a3f8c2eebf54db7b17549368258d5d41f577984a4c266b92e8783ef66350215573d99be4089144b383ad8f3222bae8f3bf80ff1bb2b":":2a0340ae9deafe3e8129daca0"

HMAC-SHA-224 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA2_C
sha224_hmac:14:"5456eece5e46f6a17c59f91a94f81ae":":8f8b7f3565593170152dbd2021874784e951977cfdd22f8b72a72a61930a8f2a35697b5e913717805559b1af1861ee3ed42f7b88481e4fd276617bdee6eac7b4501dec5d20e5b7626d5edf6dc65294db4d682ce33d9a9255c6435383af5f1e8863263a3abc6bd50a33ab52dbb034ce0112d4e226bbcd57e3731a519a1d784":":3eb566eac54e4a3a9ef092469f24"

HMAC-SHA-224 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA2_C
sha224_hmac:14:"446ab4d4c43884a1a9750c7f173df02e":":2534c11c78c99fcaae8f27220f4acd7045c7324d58ce98e37cfa94b6ed21ed7f85cc53379ef24b72d6640ce9154f96c614734be9c408e225d794ac4ec1179cc9f6e1808e1067a8af244a99bd0c3267594c1887a40d166f887c7f78db0d19f7b01fc505b8c86def4909dafa7a5135002c33e71d77a8c9e8e0f93e0
HMAC-SHA-224 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA2_C
sha224_hmac:28:"0e3d9dbb5e4ecf0f9a4c11600af56d8":"f4589fa76c328ea25cf8bae582026ba40a59d45a546ff31cf80ebf82608f699b954c452c7458b6836416dee90a5255bc5d56d3b405b3705a19704568832fa984c3a3dfbd6ec92cd6a0b56e512a624048bb6f170306535eb3793a13a31426a2430ad3d2c688cca80baa9e9a20e1d4c548b1cede29c6a45bf4df2c8e476fa1:"12175b93e3da48521714e4dc0a1cf142f9b3919b501e037b350b"
HMAC-SHA-256 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA2_C
sha256 hmac:24:"63cec6246aeb1b61":"c178db908a405fa88aa255b8cad22b4057016585f139ee930388b083d86062f
a083ea1f23f8a43d11beee8464bcbd19b5ab9f6a8038d5245516f8274d20c8ee3033a07b908da528afa00343bb595ded5
00cab97454c6b391c233000d3584b09b3326ec4fa342620b789f5bf42f7370ed770643e1764aeae3dcf1a3ec69":
"64f3d8d61b7c7d29fcee9ae0ce9ed954b5d7141806ee9ec7"

HMAC-SHA-384 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA3_C
sha384 hmac:32:"91a7401817386948ca952f9a20ee55dc":"2f6aa5b910356d5601f3a834fa1787bfe646499a8450432da
fd32e4466b0e1e77811668fa737fe0e63b3b0870920f559f47bd1d400a1a906e85e0dfc00afa26682e9148bb23806680f285
f1e4f93cda9f24e181965465739e14f2268c88eb8b471847c74b222577a1310bdec1a85ef1468a1af3d0431213c9732
4b7509c9050a3d":"67d7be9490058ce4f143ce09fd043c22424ce4fa7859b13738000a9a593c9f75838"

HMAC-SHA-384 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA3_C
sha384 hmac:32:"6dcac19657061909a06da11cd2e9ea47":"9f482e4655173153dfaa2211bbed66af263db48716406ec5
aee162ba3c43bc4caad45f9a19558735721191c7343118ee665982929802913d67b6ede5c4bdc3d27299b7222195d2adef
a59db9f7b229f4babc3f60719320cf2ea7a51cad1133d21bad2d80919b1836ef825308b75c16b7677ac78e2e2b30007afa66581cbdd215":
"f3d5f3c008175321aa7b7ea379ea4efb6c06f895ec8940b162f80a7dfef9"

HMAC-SHA-384 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA3_C
sha384 hmac:32:"e06366ad1498b8442cd4c1abddd0afde":"2d140a194c02a5598f69174834679b8371234a0d505491
f1bd03e128dd91a8bca2b112ed5a761b5b00592078f450d5b7547de7a19315925085fc7d36ef520099e51ca3d88c
6c09e9d074b0ee110736e099b478b93e3fb34d7bf1c41b54decece43eab077a3aa4998ede53f67b4ea36c2667459f6435
360bdc8337c70dab":"c19e67eda6f6e29f3667bee1c897c33ce7683094ae77e84b4c16378d290985a1"
depends_on:POLARSSL_SHA4_C
sha384_hmac:48:"9fe794fe02eb6669fa5f6883149377c6c":"6010c9745e8f1d44c9c9e70df79bc4271944c2d1d84db a589073dfc4e5a9b98e5935f6f0cd87be1f28ae88a832fde339b2087daf942aa1f67876c5d6ed33924bed4143bc12a2be 5322ca6f6da7e2e3c8872b9823b0533b6f15513e5eef8e6c1554536975d7c3a61ba7365ec35f156bc92d419eb9156ad e17d1fa1b1461c":"915ae6f18754698c2b6eef9629e9344f18541bd4258a5e05372d19136cfafefc0473b48d96119291b3 8e81a3cb1982a986b"

HMAC-SHA-512 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C
sha1_hmac:32:"c95a17c09940a691ed2d6215710eb844ed55a9":"99cd282628e1f34878cedebf4128e05e2098a70 09278a6664ca785784d0e5678f3f22b2f86e9882d73b6273a222ec61750b4556d7661f550a7adef8e3faedbe4bdaea83f56 0d6df17eb914d0f5dafa48940551bae81d700f5ca7142795e386e8120d66742ec65cf6ee8d89a92217a0f262d60d60b b20ef679a8299ce8502e2f":"6bc1379d156559ddee2de420ea5d5e5ff3e4541a059b7ba72c350e777b6e9333c"

HMAC-SHA-512 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
sha512_hmac:32:"c95a17c09940a691ed2d6215710eb844ed55a9":"99cd282628e1f34878cedebf4128e05e2098a70 09278a6664ca785784d0e5678f3f22b2f86e9882d73b6273a222ec61750b4556d7661f550a7adef8e3faedbe4bdaea83f56 0d6df17eb914d0f5dafa48940551bae81d700f5ca7142795e386e8120d66742ec65cf6ee8d89a92217a0f262d60d60b b20ef679a8299ce8502e2f":"6bc1379d156559ddee2de420ea5d5e5ff3e4541a059b7ba72c350e777b6e9333c"

HMAC-SHA-512 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
sha1_hmac:32:"3b1b0b8fa718840d1dea8e9f1c317747bfcf58757fd":"f04f5b7073d7d0274e8354433b390306c560763 2f1f5f89e12ed62d56573afa2f336d2eb2d4e731a992e6546ba30b1edf4a609788f66e1c1b990b15d59d8832110d0b74 eae35a81562d14ce4136d820ad0a55f54898ab678fbbc1c27636ec1349d70e74f00e0ec27cfbe89718194f789e486b50a 0d7271d77e2aae50d6e2d":"fc3c38c7a17e3ce06d03f31c172866f01a00045db55f2e234f71c8226f2f2a2"
GAYDVQDExFQb2xhcnTTCTBTZXJ2ZXIgMTCCAS1wDQYJKoZIhvcNAQEBBQADggEP
ADCCAQgCggEBAAkCHz1AarYVU4v9NuC5Z84VY6Jv7joRZDb7ogWUtPxB1BHljJZ
ZIdr/SvgrVlzt3PkuGRW+1moG+JXKIFgNCDaVBQ3df0XwJBEcSfC5cO2j7BUZ
HqgzCEBBUKpUzDntNdbSh9NEFFAZ3MTD0D4bYEwqBxU8YwfbU5rPla7h+n+SnxYF
W+eTi4W11LZ1CQG1QiIUXH3aYaj8lG6f6ZSx65Wb3P5Bxhem2mxbacsCuhQs
FiStZsN0f3dSZyPxAj/X70McotecMqICwThLqZPCg6ezrzrYieJTWZ5uWpl4j0g/
DJQzo93f6j2VE+0p26twEtxaymsXq1KCVLECAwEAAaAAMA0GSqGSIb3DQEBcUA
A4IBAQBY1mnYQ3ThVyeZb1Z2wLYoHZ5rfcICedY73P7ngjZjhMbwiOuf2tUhbP
+OQzf7XJXJbtq1wpRMCoUMLWzapS7/xGx3jioPl42aM4M+iXYvblJexL13kUA
reE4JWcMhtEPoL2sDx/LuB+m27jEp5VsvM2ty9qOw/T4iKwjF66pcYZ2spks19
3ltjinaawmq2Cn9zUA3IERTSwjre5xKYgxFxm2OeEuSP0r7r+o+w2X9dGcLhrm
TA4P8QjIgSD1zymhYyMsrioFPcUf1iuzs8xmbLXhiCGZ8TDMs5qLo1k+1j2pF
ox+ATHKxQ/XpRQP+2OTb9sw1kM59
-----END CERTIFICATE REQUEST-----
Certificate:

Data:

Version: 3 (0x2)
Serial Number: 1 (0x1)
Signature Algorithm: sha1WithRSAEncryption
Issuer: C=NL, O=PolarSSL, CN=PolarSSL Test CA
Validity
Not Before: Feb 12 14:44:06 2011 GMT
Not After: Feb 12 14:44:06 2021 GMT
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:dd:a6:1a:8f: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

-----BEGIN CERTIFICATE-----
MIIDPzCAiegAwIBAgIBATANBgkqhkiG9w0BAQUFADA7MQswCQYDVQQGEwJOTDERMA8GA1UEChMIUG9sYXJTU0wxGTAXBgNVBAMTEFBvbGFyU1NMIFRlc3QgQ0EwHhcNMTExMjEyMTQ0NDA2WhcNMjEwMjEyMTQ0NDA2WjA8MQswCQYDVQQGEwJOTDERMA8GA1UEChMIUG9sYXJTU0wxGjAYBgNVBAMTEVBvbGFyU1NMIFNlcnZlciAxMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAqQIfPUBq1VVTi/027oJlhVhXom/uOhFkNvuiBZs0/FDUeeWElkjkz9Kk+BG+XO+3c+S4Zf7Wagb4kepUWA0INq1UFDd85fAKER4KwVzl67aPsfRkqDMIR8EFQq9TM00390GH00QUUBncxMPQPhgSVfCrFtxjB+FTms+Vru5fKeppVb5x0XohbUjttnUjAbVCSVJdQfdphqPWPwKzvQ1llGLTrrIrZvc/kF6f6bhbFtpzAK6fFwCVjJk3K3MQ9j1cEtoCPFv9xqyi1wyoLBNspk9wbp7oVjVI4Jzn5skn3xiiD8MIBnj3eXonZUT7Snbq3A33FrkxerUoJusQIDAQABo00wSzAJBgNVHRMEjAAAB0GA1UdDgQWBBQfdIDN3NcIvCzAlIgNkCAIQ
-----END CERTIFICATE-----

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}
    DEPENDS ${CMAKE_CURRENT_SOURCE_DIR}/scripts/generate_code.pl polarssl fct.h
    suites/helpers.function suites/test_suite_${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(mdx)
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)
    Signature Algorithm: sha256WithRSAEncryption
    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 SHA256
    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:
        97:17:0b:13:0a:a7:6b:4a:8b:1c:47:30:fb:3a:f8:
Open Source Used in HyperFlex HX Data Platform 5.0(2a)
<ProjectReference />
</ItemGroup>
</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>
  <WholeProgramOptimization>true</WholeProgramOptimization>
  <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>

<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 Condition="$(Configuration)|$(Platform) == 'Release|x64' Label="PropertySheets">
</ImportGroup>

<ImportGroup Condition="$(Configuration)|$(Platform) == 'Release|x64' Label="PropertySheets">
</ImportGroup>
Condition="exists('$(UserRootDir)\Microsoft.Cpp.$(Platform).user.props')" Label="LocalAppDataPlatform" />
</PropertyGroup>
</PropertyGroup Label="LocalAppDataPlatform" />
</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>
</PropertyGroup Condition="$(Configuration)|$(Platform)=='Debug|Win32'">
<ClCompile>
  <PrecompiledHeader/>
  </PrecompiledHeader>
  <Warnings>Level3</Warnings>
  <Optimization>Disabled</Optimization>
</ClCompile>
</Link>
</ProjectReference>
</ItemDefinitionGroup>
</ItemDefinitionGroup Condition="$(Configuration)|$(Platform)=='Debug|x64'">
<ClCompile>
  <PrecompiledHeader/>
  </PrecompiledHeader>
  <Warnings>Level3</Warnings>
  <Optimization>Disabled</Optimization>
</ClCompile>
</Link>
</ProjectReference>
</ItemDefinitionGroup>
</ItemDefinitionGroup Condition="$(Configuration)|$(Platform)=='Debug|x64'">
<ClCompile>
  <PrecompiledHeader/>
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  <Warnings>Level3</Warnings>
  <Optimization>Disabled</Optimization>
</ClCompile>
</Link>
</ProjectReference>
</ItemDefinitionGroup>
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<ClCompile>
  <PrecompiledHeader/>
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  <Warnings>Level3</Warnings>
  <Optimization>Disabled</Optimization>
</ClCompile>
</Link>
</ProjectReference>
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<ClCompile>
  <PrecompiledHeader/>
  </PrecompiledHeader>
  <Warnings>Level3</Warnings>
  <Optimization>Disabled</Optimization>
</ClCompile>
</Link>
</ProjectReference>
</ItemDefinitionGroup>
</ItemDefinitionGroup Condition="$(Configuration)|$(Platform)=='Debug|x64'">
<ClCompile>
  <PrecompiledHeader/>
  </PrecompiledHeader>
  <Warnings>Level3</Warnings>
  <Optimization>Disabled</Optimization>
</ClCompile>
</Link>
</ProjectReference>
</ItemDefinitionGroup>
</ItemDefinitionGroup Condition="$(Configuration)|$(Platform)=='Debug|x64'">
<ClCompile>
  <PrecompiledHeader/>
  </PrecompiledHeader>
  <Warnings>Level3</Warnings>
  <Optimization>Disabled</Optimization>
</ClCompile>
</Link>
</ProjectReference>
</ItemDefinitionGroup>
"
<OptimizeReferences>true</OptimizeReferences>
<AdditionalLibraryDirectories>Release</AdditionalLibraryDirectories>
<AdditionalDependencies>%(AdditionalDependencies);</AdditionalDependencies>
</Link>
</ItemDefinitionGroup>
<Import Project="$(VCTargetsPath)\Microsoft.Cpp.targets" />
<ImportGroup Label="ExtensionTargets">
</ImportGroup>
<Project>
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):
        00:b9:3c:4a:c5:c8:a3:8e:90:17:a4:9e:52:aa:71:
        be:11:ad:5e: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:ce:1:47:30:fb:3a:f8:
        ca:01:e3:35:7f:fa:20:ff: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: sha384WithRSAEncryption
68:6e6f:03:0f:0a:44:e7:cc:e1:b2:07:6c:56:c8:be:b7:ba:80:
2c:ed:fa:bb:cc:45:eb:36:33:3b:53:35:7f:5f:05:4e:0f:8f:
bc:0d:ad:8a

-----BEGIN CERTIFICATE-----
MIIDQjCCaqggAwIBAgIWCgIBGzIwJAYIBAgIBBgkqhkiG9w0BAQwHwYDQYJKoZIhvcN
AQEBnQMDQgwJAYIBAgIBBgkqhkiG9w0BAQwHwYDQYJKoZIhvcNPAQgGAKCSBBAQ8AMIBB
MTEwMjAyMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAw
MjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAw
MjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAwMjAw

-----END CERTIFICATE-----
Cipher Selftest
depends_on:PolarSSL_SELF_TEST
cipher_selftest:

Decrypt empty buffer
dec_empty_buf:

CAMELLIA Encrypt and decrypt 0 bytes
CAMELLIA Encrypt and decrypt 1 byte
depends_on:POLARSSL_CAMELLIA_C
ecc_dec_buf:POLARSSL_CIPHER_CAMELLIA_128_CBC:CAMELLIA-128-CBC:128:1

CAMELLIA Encrypt and decrypt 2 bytes
depends_on:POLARSSL_CAMELLIA_C

CAMELLIA Encrypt and decrypt 7 bytes
depends_on:POLARSSL_CAMELLIA_C

CAMELLIA Encrypt and decrypt 8 bytes
depends_on:POLARSSL_CAMELLIA_C
ecc_dec_buf:POLARSSL_CIPHER_CAMELLIA_128_CBC:CAMELLIA-128-CBC:128:8

CAMELLIA Encrypt and decrypt 9 bytes
depends_on:POLARSSL_CAMELLIA_C

CAMELLIA Encrypt and decrypt 15 bytes
depends_on:POLARSSL_CAMELLIA_C

CAMELLIA Encrypt and decrypt 16 bytes
depends_on:POLARSSL_CAMELLIA_C

CAMELLIA Encrypt and decrypt 17 bytes
depends_on:POLARSSL_CAMELLIA_C

CAMELLIA Encrypt and decrypt 31 bytes
depends_on:POLARSSL_CAMELLIA_C

CAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CAMELLIA_C

CAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CAMELLIA_C

CAMELLIA Encrypt and decrypt 47 bytes
depends_on:POLARSSL_CAMELLIA_C
CAMELLIA Encrypt and decrypt 48 bytes
depends_on:POLARSSL_CAMELLIA_C

CAMELLIA Encrypt and decrypt 49 bytes
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_128_CBC:CAMELLIA-128-CBC:128:49

CAMELLIA Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:0:0:

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:1:0:

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:0:1:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:16:0:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:0:16:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:1:15:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_CAMELLIA_C
c enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:15:1:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
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
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
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
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CBC:128:16:16:

CAMELLIA Encrypt and decrypt 0 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB

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_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 15 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 16 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 17 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 31 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB
CAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 47 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 48 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 49 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB

CAMELLIA Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_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 1
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CFB128:128:1:0:

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_CAMELLIA_C: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 1
depends_on:POLARSSL_CAMELLIA_C: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 2
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CFB128:128:0:16:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_CAMELLIA_C: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_CAMELLIA_C: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_CAMELLIA_C: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_CAMELLIA_C: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_CAMELLIA_C: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_CAMELLIA_C: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_CAMELLIA_C: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_CAMELLIA_C: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_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR

CAMELLIA Encrypt and decrypt 7 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR

CAMELLIA Encrypt and decrypt 8 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_128_CTR:CAMELLIA-128-CTR:128:8

CAMELLIA Encrypt and decrypt 9 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR

CAMELLIA Encrypt and decrypt 15 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR

CAMELLIA Encrypt and decrypt 16 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR

CAMELLIA Encrypt and decrypt 17 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
CAMELLIA Encrypt and decrypt 31 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR

CAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR

CAMELLIA Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR

CAMELLIA Encrypt and decrypt 47 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR

CAMELLIA Encrypt and decrypt 48 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR

CAMELLIA Encrypt and decrypt 49 bytes
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR

CAMELLIA Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_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 1
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:1:0:

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_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 1
depends_on:POLARSSL_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 2
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:0:16:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:1:15:
CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:15:1:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:15:7:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
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 1
depends_on:POLARSSL_CIPHER_CAMELLIA_C:POLARSSL_CIPHER_MODE_CTR
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_128_CTR:128:17:6:

CAMELLIA Encrypt and decrypt 32 bytes in multiple parts 1
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
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:0

CAMELLIA Encrypt and decrypt 1 byte
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:1

CAMELLIA Encrypt and decrypt 2 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:2

CAMELLIA Encrypt and decrypt 7 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:7

CAMELLIA Encrypt and decrypt 8 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:8

CAMELLIA Encrypt and decrypt 9 bytes
depends_on:POLARSSL_CIPHER_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:9

CAMELLIA Encrypt and decrypt 15 bytes
depends_on:POLARSSL_CIPHER_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
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:47

CAMELLIA Encrypt and decrypt 48 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:48

CAMELLIA Encrypt and decrypt 49 bytes
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:49

CAMELLIA Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:0:0:

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:1:0:

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:0:1:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:CAMELLIA-192-CBC:192:16:0:
CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_CAMELLIA_C
en_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:0:16:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_CAMELLIA_C
en_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:1:15:

CAMELLIA Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_CAMELLIA_C
en_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:15:1:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
en_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:15:7:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
en_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:16:6:

CAMELLIA Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CAMELLIA_C
en_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
en_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_192_CBC:192:16:16:

CAMELLIA Encrypt and decrypt 0 bytes
depends_on:POLARSSL_CAMELLIA_C
en_dec_buf:POLARSSL_CIPHER_CAMELLIA-256_CBC:CAMELLIA-256-CBC:256:0

CAMELLIA Encrypt and decrypt 1 byte
depends_on:POLARSSL_CAMELLIA_C
en_dec_buf:POLARSSL_CIPHER_CAMELLIA-256_CBC:CAMELLIA-256-CBC:256:1

CAMELLIA Encrypt and decrypt 2 bytes
depends_on:POLARSSL_CAMELLIA_C
en_dec_buf:POLARSSL_CIPHER_CAMELLIA-256_CBC:CAMELLIA-256-CBC:256:2

CAMELLIA Encrypt and decrypt 7 bytes
depends_on:POLARSSL_CAMELLIA_C

CAMELLIA Encrypt and decrypt 8 bytes
depends_on:POLARSSL_CAMELLIA_C
en_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  
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:32

CAMELLIA Encrypt and decrypt 32 bytes  
depends_on:POLARSSL_CAMELLIA_C  
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:33

CAMELLIA Encrypt and decrypt 47 bytes  
depends_on:POLARSSL_CAMELLIA_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  
enc_dec_buf:POLARSSL_CIPHER_CAMELLIA_256_CBC:CAMELLIA-256-CBC:256:48

CAMELLIA Encrypt and decrypt 49 bytes  
depends_on:POLARSSL_CAMELLIA_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  
enc_dec_buf_multipart:POLARSSL_CIPHER_CAMELLIA_256_CBC:256:0:0:

CAMELLIA Encrypt and decrypt 1 bytes in multiple parts  
depends_on:POLARSSL_CAMELLIA_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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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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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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:256:16:16:

-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAyHTEzLn5tXnpRdkUyLB9u5Pyax6fM60Nj4o8VmXI3ETZzGaF
B9X4J7BNsBjngpuG7a8H6r7gwQk4ZJGDTeqCrSV/Uu1C93KYrhTYJQj6eVSHD1
bk2y1RDP0ht5kQhTrdOrA7RjUV06p86jt0uDBMHEwMjDV0/Y10FZP07oyX/k9
ZSGIMC5St99++UMd/sSmB4j7/Cf8qtbCHWjdmLao5v4Jv+4EFbMs44TFFeY0BGbH
7vk2DmqV9gmaBn0ZXH4ygSxeJ+Plsl1BG6e46E92hfx/0ZrtenNLQnTrMr9AM+v
dqBpVoNq0qU51Bx5rU2BZcFbVx15MT9TNuhXw1DAQABAolBAbDnFyDIap6bzs
tyhC18m9TtrhZw4MisaaNl3XSjAgO2vV6xM0CMV+5TeXDOAznY18Yi18vz
4Ur2TnFEziCECYNaA2fT3Whm0xUyV3YAxP6CN0JaCmveA0yF2kFVSeaKgt
ynnJwNp2Nkvm7Th8bBQB071AXhz43k0m7XmPgewe8ApZOG3hst0AmvBAvWA
zCZupDdjZyOjqlA4eEA4H8/w7F83r5CugeBE8LgEREjLp1yjrijUH1febEY+h0d
15H265yB7XiFQ5U9o/QKA3dd0toBEhhdRUDGzWtjvweEQf1reGWj/tod/gCpf
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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:"":"da39a3ee5e6b4b0d3255bfef95601890afd80709"

SHA-1 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA1_C
sha1:"a8":"99f2aa95e36f95e2acb0eaf23998f030638f3f15"

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"c4a44319e9b6cc1e8464c511ec0969c37d6fbb2619"

SHA-1 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA1_C
sha1:9fe3fe08"16a0ff84fcc156fd5d3ca3a744f20a232d172253"

SHA-1 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA1_C
sha1:b5c1c6f1af"fecd9eebfc6edaf66dda525e1be43597a73a1f93"

SHA-1 Test Vector NIST CAVS #7
depends_on:POLARSSL_SHA1_C
sha1:ec295612d4de70666e30a1c371d74450a105c3f9735f7fa9f38c67f304a5736a106e92e17139a6813b1c81af3
d3f95946ab4296fa9f722826c066869edac73bd254803518513e22634a9da44000d95a281f9f26ece0a931222162
d021ca28db5f3ca2a4945a8eb31cb143ae29810df794acdfaf29e4c3eb38d198fe4ae1da2359780221405bd6712a5
d05da4b1b737fce7cd21c0eb7728d08235a9011"970111c4e77bce88cc20459e02b69b4aa8f58217"

SHA-1 Test Vector NIST CAVS #8
depends_on:POLARSSL_SHA1_C
sha1:5f2c23f6a7e79dc94be526e5166a238899d54927ce470018fb6d68fb9d97cfbf64e2c91584d01a636be3cc9efdf8
ae0ad4e6e372e1e33589becdc8f7069712e323d094bf47fae662afe46d4a147af94f6fda33ac6b5f3aa12234746b007a8c85
f9e82afe781522e434d3ba533d8ef8a022decab1996eeea359e5a9de7e2e3822dfaf619f359f427cd34342cd7adeade8c3
859487339867806fb2b2566a4e03990d46153da0ef44ad4dfdf14db1e85717d93c3bf9af7f25c8194c469b1ee3d9
934097ab990025d9c3a663d51095f2335dd3959d38ae485050e4bb62353574f1c012b2e8f7a306d6e8de6b68becfe80f37
41b5f79898a5824e77414197422b3d366a080"04237c6a8791107d14e13f5265b343f24cc0f19"

SHA-1 Test Vector NIST CAVS #9
depends_on:POLARSSL_SHA1_C
sha1:0f86f54af83faed2da18482a909af390dcd9075d1db1d0fe0bf5f3928d5927d08733d2077555a6d1ce8ac1b2
c6ba0f2633dca1af6e30f0a3d85e6e0c6b7b56c239dc1519007e5a36a07b18eceaa0afa6c31b46b76f02160ef36c6f976
804018380e5a9b5c58c5efbc5b1c9ed2d974722bfba6398f1f2b682f5a0583f85c16a5767a3af727d1677430f8050e8c4
c827f221cf0f99895e0c844845b0a60cebcc06c83eb55a1d4ebecc4c2e13f6fe7aa5e0f8bd48e7846279057abe471e
e4a45d8bb5774a2a2e515791a0eada11093b88681fe30bba3b2e94113dc63342c51ca5d1a6096d08976b5e8e29b91761
50800874f63f546565540ad8c6b8b6017e1461b3ce9e652625984c8c746f07735be067588a0117f2e34f57800e
2be9a1616506de6087b15d22e5d3ac47566b8c448b0ce40373e5ba6ea21abe71636afbb2db3d30427707d0c731e7b
8963812f5ed4bf784bf23b1d3ae8f33cd47ef32bareae"66692a71d73e00f27df9796b56df4979650d90e45"

SHA-1 Test Vector NIST CAVS #10
depends_on:POLARSSL_SHA1_C
sha1:8236153781bd2f181fefe0def1beb4f65f70191142926651503f1b3b1016acdb9e77f7aced88d16d18226f118ff646
a01f880016d023587fba5a2a2558393476f5f6c69ce9c95000123e704762cc81e97e9ea1caeb19e4224339hbc23f777a8
3eAce50969b3090c51a6ee6d2d40b75a567a17de996d380b088224df4d3863a9f9c7442948acbea64842dfda238c09999
276cf6ae07dfb723a4e4566c0152b24853e0d5d4e179974b269d4a1cdbebe6cb0d1d31165da05913617e6aa98ab82a
c2f0dd940b6e47830b1325eb489ba6710473cfc923e222d94b582f9a9e36d4ca2a32d141b8e8c36368845fbc4999ce1769
8c3feca2572dbdb470552430d7fe30e238c3e2124478f1770843839b4f73d63a946020682a5b66b56351b21e3c2f4ac9
7ee7c0e7faad3df59c7ca8e241876d9aaf3a309f6da352bec2eaa92ee8dca392899ba67dfd90aef3d34f12c49b76
SHA-224 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA2_C
sha224:"":"d14a028c2a3a2b94976102b2b88234c415a2b0f1f828ea62ac5b3e42f"

SHA-224 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA2_C
sha224:"":"e33f9d75e6ae1369dbabf81b96b4591ae466ba30b591a6bc162542b5"

SHA-224 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA2_C
sha224:"":"2fa9d9157d9e027fcbe4e6ad3f32eadc0be2328ec2a63c5ae934e"

SHA-224 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA2_C
sha224:"":"50efd0":"b5a9820413c2b8211fbf5df1337043b32fa4eaf6a1ac8e9cdecd"

SHA-224 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA2_C
sha224:"":"78f4a771c1e2694999ce1c78766611b14ace70d905012c356323c7c713"

SHA-224 Test Vector NIST CAVS #6
depends_on:POLARSSL_SHA2_C
sha224:"":"21ebecb914":"778f4a771c1e2694999ce1c78766611b14ace70d905012c356323c7c713"
SHA-384 Test Vector NIST CAVS #1
depends_on: POLARSSL_SHA4_C
sha384: "38b060a751ac96384cd9327eb1b36a21fd87114be07434e0cc7bf63f6e1da274edebe7e6df5b5d1ad2f14898b95b"

SHA-384 Test Vector NIST CAVS #2
depends_on: POLARSSL_SHA4_C
sha384: "ab": "fb94d5be118865f6fcbec978b825da82cffe188faec2f66cb84b2537d74b4938469854b0ca89e66fa2e182834736629fd3d"

SHA-384 Test Vector NIST CAVS #3
depends_on: POLARSSL_SHA4_C
sha384: "7c27": "3d800e467df86d63aab9ea1d3f9cb39cd19890e7f2c5a6200bedc5006842b35e820dc4e0ca90ca9b97ab23ef07080f6c"

SHA-384 Test Vector NIST CAVS #4
depends_on: POLARSSL_SHA4_C
sha384: "31f5ca": "78d54b934321fddf7ba90a7fb9637c2073aa480454bd841d39ff72f4511f21fb67797b652e0c823229342873d3befe955"

SHA-384 Test Vector NIST CAVS #5
depends_on: POLARSSL_SHA4_C
sha384: "7bdee3f8": "8bdaf0ba777ee446e3431c2d7b1fb631089f71d2ca417abc1d230e1aba64ec2f1c187474a6f4077d372c14ad407f99a"

SHA-384 Test Vector NIST CAVS #6
depends_on: POLARSSL_SHA4_C
sha384: "8f056049f5": "504e414bf1db1060f14e8c799e25b1e0c4dcf1504ebbd129998f0ae283e6de86e0d3c7e879c73ec3b1836c3ee89c2649"

SHA-384 Test Vector NIST CAVS #7
sha384: "665da6edaa214": "4c022f112010908848312f8b8f1072625fd5c105399d562e1d56130619a7eac8dfc3748fd05ee37e4b690be9d9a9980"

SHA-384 Test Vector NIST CAVS #8
depends_on: POLARSSL_SHA4_C
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sha384:"7f46ce506d5934ed53c82edeb602037e0485b6e0f3ef7930fe532d18ff2a3f5fd6076672c8145a1bf40dd94f7aabb4c9e7
9ca6e396237fe493fa469f7ace9278d66068d6bd2ab83b160513ce924ce9f084b9789ff9d4cdefc169a029e431ca772ba1bba426cf61f0d18e28061e45ac6c6b7994ed6b2b4d78332f83fa2f7f8e0de3957fd500e1087f1e406804dfe8e3a7
3906af09b6cb6f4ea3eb936d218f47e4b178c3265cc46b8f2f5fa1ba7447feaf297d6cfabfa0172aabb87238b9b5346b915b6646ce90d9b5d7e95b77a7e56d360b78d74401679fa7b0a44db199f18f6d4353545ae46e11835b0a
d51fae71ca07e34204283959f5350a33c270d95a088e501c230059f333b0670825009e7e22103ef2295380d0f1fac8ef87
7f5f3426dd5471d1128dd87119d7a0d70889f40c8712013295b8dd69ae76e23b880978ce2d3cad62d674f8d47f50acddc6
18665de51305a0971b2f219e1f6c4ac5b9d89b59148fc791633752303a0e8fe51b8dc389bfa5482aa4e5c70b8792a9fe3
dd0661eb3b39026cc3e6399f15917f7383d605e144a5928c82d1ad747b05da2f202f1f3234e1aff19a019f18a28685721c3
d5d25311c721e3f3dcbaf30214dc3aef8e438388e04104b63fd2d76ce99a97587819ba7a0ac08ae19e69764fe8f8c8e0
9167efe0c115147d494499f9422e50530e1c79a4ad2d6c5188d133d3cbbf69090427b354b295c0d7f0c5ad787363bd9
8e6fb003383ca06a96cb6dcb35a125105e05a7d889047d0b638441a1bb928737e8b0a3cc3254f47a8abf33e33a1092c76
dbcfa67e30df30d34f7b8465cc4f869e51b1bcbfe6ce68b238359a645036bflf63fd02924e087ce7457e483b6025a589503
cb484574a31b12c994f632127d537c33bee314151b5db96d10a148c50a0e45f2520710577710d8648064b202f279e79
d18c6da15f8a477a7f63935e1dee003009cd276a8e7176c504ad6b00e9009534438732cb4d200808853d3d19beba466
e10060307ef1d1bc7c929066b24e4f8f89a1b58c44d68bb34cbab63f34f85b3ac6aa447586e751b5b258434cb2382994b304
bddd817d8b6ef37b9a2f6423950505e27888e6082b24d29ef2bd0d3c90315d959f40504d3d9361eb5f5fadb26266c3
9a80949cefe2f85f63f9df65fc8ae0c74a84f6e1d07b09183a434c722caaa0225f8b6d68146d0f783ed2f8484ec9607
d7155e08e26c46b262a73e5551698b7d08d56107fcf34e0360ed4bafa409a9c367d5f13e69b1a7f7472c2484e55c5
b81313972be8387b10244995e98cf87f102909d014244dc2b296c2e0d8fbd5b3e76a2df0cdcd2f7d7d2f919799
84305265f6395a7f5472f2d7c94d68ec2791f414f8a2a8dd5fe4e23488b0aca9673f9b862a0915255f0dfaf2bf103502d3c2
996256e01dfbb2c2e612591896b8774e4929ce95f51904f18e22ed141198023e1f57b3848f1b176a552789
dff06":"c9a9e3eb12a6f83db11e8af640d1049854e094416bc527fe9a319d5885428a8ed624ce811f6769b36e2123a5
c23483e"

SHA-512 Test Vector NIST CAVS #1
depends_on:POLARSSL_SHA4_C
sha512::""cf83e1357eeb8df1542850d6d80076d20e4050b5715dc83f4a921d36ce9ce47d0d13c5d85f2b0ff8318d2
877ee2f63b931bd47417a81a538327af927da3e"

SHA-512 Test Vector NIST CAVS #2
depends_on:POLARSSL_SHA4_C
sha512::""8f":"e4cd2d199191b5a0ac9d920f45f56f6c3e43d38c6d319a611d0588ab8b838576d6ce6d68eae7c830de666e2
2bd96458bfa7aafcbec981d4ed040498c3dd95f22a"

SHA-512 Test Vector NIST CAVS #3
depends_on:POLARSSL_SHA4_C
sha512::""e724":"7dbb520221a70287b23dcbf62bfc1b73136d858e86266732a7f8a785ecaa2c1b8f673b5e065d300c5
3a7b9539349f5f59be8c0c59f9587e3cd50bb6a231"

SHA-512 Test Vector NIST CAVS #4
depends_on:POLARSSL_SHA4_C
sha512::""de4c90":""33e9c8280145a5c4ec9d0f363d8196f1d7d0c5ee46ac89776fd8a4344c12f123a66788af5bd41ceff19
41aa5637654b4064e88c14e00465ab79a2f6c97e1014"

SHA-512 Test Vector NIST CAVS #5
depends_on:POLARSSL_SHA4_C
SHA-512 Test Vector NIST CAVS #6
depends_on:POLARSSSL_SHA4_C
sha512:94390d3502:6175c4c4cccf6f9e0ce5f0312010886ea6b34d43673f942ae42483f9eb7da817de4e11b5d58e25a3d9bd721a22cdfe1c40411cc45df911fa5506129b69297

SHA-512 Test Vector NIST CAVS #7
depends_on:POLARSSSL_SHA4_C
sha512:49297dd63e5f:1f0c16f6f87085991d1649f5e5336a9cd16329c029ba04d5a6edff2578892ae9522b497dd656bb402da61307c43e832e8e3898c08e6e6e7697f1e439f650fa94

SHA-512 Test Vector NIST CAVS #8
depends_on:POLARSSSL_SHA4_C
sha512:990d1ae7a162d7db9d9ba1762a68296ee72a4c9d46f287a898fbabc002ea941fd8d4991030b4d27b637c7c01a834bb9eb1b7889a3e784c7968e67cbf5502006b2066b8f76f7d919327524fccc251aeb56a483d1084e06c6e599ee8c00fe4afe8293844a8547c6a9940093f2526873a19ad4a5e777694c68c742f8b384793d2dfc7e4a6c63af47f0d11cbe6418347e24e0ed8b067b292a794990c288d5007e73f349fb383af6a7568301ad6e50aa8c6d14399bbb3a452376b1575af6aabdaaeac286c64bf91edef97c632b6cc111d107fa93a905098a10543c2f05397f702514439a894ed5d511961007214d5c8fc172ded65937f68a00bd5c9a8b660e26d8a298d6a5f2de97e934e603d6f50ba153aa5bba97c208b8030dc2d18ec2532f3a9cc4979ee64ce057d8d060e5069b2868ed6f1adecf59144b221ce3d3a9e143b3124f7cd000240ef0ff5f54f1e383c7f5bb737ae921953fe302bb0fe68b8f9a1c9eb99265c4b2fd9cd4942be04321bb5d6d719323766f2f8e02422f6a5e2b76f5d93fdd0728c6abada03bce22e6078a5442e36c36f74b16f447e58a8c656b43e8f17932176adbfc2e049e22c1273d6c6fba0490f80be36a34221fa026435f5ee2e08b3135f2a18eced2f16e4cb5f38e8e78bb96a1567e0e1690491899408068c1af02057ceda194b28869f3fe2f4fbe0384ca2af72a4522aef3d3ebc719dfb71eeef8e684399a1c865b36c35c2cc33a0a2c800be9962f6db53a2d6e90b53996ec1d38ce483ec9319edf9a85acefadb5342226ebf838df3d4af1b422465f050c6c16cde7407f89b66f9c929af1871af1e9fb98b2d345ca749949db54c2fa5d19519a1e6ba848518898730da3b2b91669152ae0c92154b497919841db7e7cc707ba8a5d7b101eb4ace7b629b23b78217910ff1f61580b59a9b78182d1a2c33473d35b00bf01b70b29e331870826cfe45af206aaa7d0246bbd8566eca7bc2bd3c10bfad1dbd487d8786034649ec782b093d7b85e1a5b0cf8ea54c8e4dacee1c5305305e27824ac276d5f7867227af24f6e17addede5c60720082572c5bc0becfe2e45f8e2eb28f6ad87b4c62a239c460441bf5ea049f23b08563b4e47729a5e9586a61a60963d5b4c36ebe8ed91e1f251c8b600a1d346e777d7e85d2a44ca966a7241c56062ca8c2805f9e9c1b032d6a180a35e58c51b089d916d026c865b252098c1df99a7375ca31c7702c0d9345e3e32d6f68f1ba55b4d46b94d7ed3e52ccedd0d6dd968e1897d69e730589d1d"5e84be6f88b8c0f4d68c61d9b159e8693c315146749af58ada282442d927f2335959b6ddc6d2e8e8fa3f00a86ecee8afa72881e1d60b821ed22fcd3090b9a1438bec9

SHA1 Hash file #1
depends_on:POLARSSL_FS_IO:POLARSSL_SHA1_C
sha1_file="data_files/hash_file_1":d21c965b1e768db7a6aa6869f5f8219f0d55f9f

SHA1 Hash file #2
depends_on:POLARSSL_FS_IO:POLARSSL_SHA1_C
sha1_file="data_files/hash_file_2":353f34271f2ae49d23a8913d4a6bd82b2cecd6c
SHA1 Hash file #4
depends_on:POLARSSL_FS_IO:POLARSSL_SHA1_C
sha1_file:"data_files/hash_file_4":"da39a3ee5e6b4b0d3255bfeef95601890afdf80709"

SHA-224 Hash file #1
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha224_file:"data_files/hash_file_1":"8606da018870f0c16834a21bc3385704cb1683b9dbab04c5dd5b90a48"

SHA-224 Hash file #2
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha224_file:"data_files/hash_file_2":"733b2ab97b6f63f2e29b9a2089756d81e14e93fe4cc9615c0d5e80a03"

SHA-224 Hash file #3
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha224_file:"data_files/hash_file_3":"e1df95867580e2cc2100e9565bf9c2e42c24fe5250e19e6f33d1c4fe"

SHA-224 Hash file #4
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha224_file:"data_files/hash_file_4":"d14a028c2a3a2bc9476102bb288234e15a2b01f828ea62ac5b3e42f"

SHA-256 Hash file #1
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha256_file:"data_files/hash_file_1":"975d0c620d3963886f8a3665e585a3e84aa0501f4225bf53029710242823e391"

SHA-256 Hash file #2
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha256_file:"data_files/hash_file_2":"11fcbf1baa36ca45745f10cc5467ae86fo66f080ba2e46806d876bf783022ad2"

SHA-256 Hash file #3
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha256_file:"data_files/hash_file_3":"9ae4b369f9f403b86505b46a5469542e00aaf7cf741a71af6d60aba3b70c"

SHA-256 Hash file #4
depends_on:POLARSSL_FS_IO:POLARSSL_SHA2_C
sha256_file:"data_files/hash_file_4":"e3b0c44298fc1c149aafbf4c8996fc2927ae41e4649b934ca495991b7852b855"

SHA-384 Hash file #1
depends_on:POLARSSL_FS_IO:POLARSSL_SHA4_C
sha384_file:"data_files/hash_file_1":"c0a3e6259d6378001b54ef82f5dd087009c5fad6d8db26a9e1d14cbbe33af6fc916e3ad4bf286424de15ad8e0e"

SHA-384 Hash file #2
depends_on:POLARSSL_FS_IO:POLARSSL_SHA4_C
sha384_file:"data_files/hash_file_2":"ef7f27aafc8495c92e2f370f97a317f93c3350324b0646b0f0e264708b3e97d3d332d3c5390e1e47130f5c92f1ef4b9cf"

SHA-384 Hash file #3
depends_on:POLARSSL_FS_IO:POLARSSL_SHA4_C
sha384_file:"data_files/hash_file_3":"6fc10ebda96a1ccf61777cac72f6034f92533d42052a4bf9f9d929c672973c71e5aeb1213268043c21527ac0f7f349c4"

SHA-384 Hash file #4
depends_on:POLARSSL_FS_IO:POLARSSL_SHA4_C
sha384_file:"data_files/hash_file_4":"38b060a751aa96384cd9327eb1b1e36a21fdb71114be07434e0cc7b63f6e1da274edebfe76f65fbd51ad2f14898b95b"

SHA-512 Hash file #1
depends_on:POLARSSL_FS_IO:POLARSSL_SHA4_C
sha512_file:"data_files/hash_file_1":"d8207a2e1ff2b424f2c4163fe1b723c9bd42e464061eb411e8df730bced24a7ab3956af3ff044a52eb2d262f9e4ca6b524092b544ab78f14d6f9e4cc8ddf335a"

SHA-512 Hash file #2
depends_on:POLARSSL_FS_IO:POLARSSL_SHA4_C
sha512_file:"data_files/hash_file_2":"ecbbf70ed8a702b49f16ad3088b06e9a93451912a7187db15f64d93517b09630b039293ead418d4a0695777b758b1f381548c2fd7b92ce5ed996b32ce8734e7"

SHA-512 Hash file #3
depends_on:POLARSSL_FS_IO:POLARSSL_SHA4_C
sha512_file:"data_files/hash_file_3":"7ceeb92da71f4df096663ce44d7f20945fccc33bfade4da152b021f1afcc7293382944a0c9e67af2f22026758e2bf6bed86ae2a43592677ee508eea41"

SHA-512 Hash file #4
depends_on:POLARSSL_FS_IO:POLARSSL_SHA4_C
sha512_file:"data_files/hash_file_4":"cf83e1357eefb8bdf1542850d666d8007d620e4050b5715dce83f4a921d36ec9e47d0d13cd5d85f2b0ff8318d2877eecc2f63b931bd47417a81a538327af927da3e"

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:
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AES-128-CBC Encrypt NIST KAT #12
aes_encrypt_cbc:"00000000000000000000000000000000":"00000000000000000000000000000000":"fffffffffffffff
ffffffffe00000000":"7472f9a7988607ca79707795991035e6":0

AES-128-CBC Decrypt NIST KAT #1
aes_decrypt_cbc:"00000000000000000000000000000000":"00000000000000000000000000000000":"fffffffffffffff
fffffffff00000000":"56aff089878bf3352f8df172a3ae47d8":0

AES-128-CBC Decrypt NIST KAT #2
aes_decrypt_cbc:"00000000000000000000000000000000":"00000000000000000000000000000000":"44a98bf11e163f
632c47ec6a49683a89":"00000000000000000000000000000000":0

AES-128-CBC Decrypt NIST KAT #3
aes_decrypt_cbc:"00000000000000000000000000000000":"00000000000000000000000000000000":"0f18aff9427469
6d9b61848bd50ae5e5":"00000000000000000000000000000000":0

AES-128-CBC Decrypt NIST KAT #4
aes_decrypt_cbc:"e234dca2606b81f29408d5f6da21206":"00000000000000000000000000000000":"fff60a474008
6b3b9c56195b98d917b":"00000000000000000000000000000000":0

AES-128-CBC Decrypt NIST KAT #5
aes_decrypt_cbc:"13237c49074a3da078dc1d828bb78e6f":"00000000000000000000000000000000":"8146a08e235
7f0eaa30ae894d1a0544":"00000000000000000000000000000000":0

AES-128-CBC Decrypt NIST KAT #6
aes Decrypt_cbc:"3071a2a48fe6cb04f1a129098e308f8":"00000000000000000000000000000000":"4b98e06d356d
eb07eb824e5713f7b3":"00000000000000000000000000000000":0

AES-128-CBC Decrypt NIST KAT #7
aes_decrypt_cbc:"00000000000000000000000000000000":"00000000000000000000000000000000":"0336763e96
6d92595a567ce9ce537f5e":"f34481ec3ce627baced5dc3fb08f273e6":0

AES-128-CBC Decrypt NIST KAT #8
aes_decrypt_cbc:"00000000000000000000000000000000":"00000000000000000000000000000000":"a9a1631bf49
96954ebc093957b234589":"9798c4640bad75c7e3227db910174e72":0

AES-128-CBC Decrypt NIST KAT #9
aes_decrypt_cbc:"00000000000000000000000000000000":"00000000000000000000000000000000":"ff4f8391a6a
40ca5b25d23bedd44a597":"96ab5c2ff612d9daaee8c31f30c42168":0

AES-128-CBC Decrypt NIST KAT #10
aes_decrypt_cbc:"00000000000000000000000000000000":"00000000000000000000000000000000":"f9b0fda0c4a
898f5b9e6f66c14ce4d07":"ffffffffffffffffffffffff0":0

AES-128-CBC Decrypt NIST KAT #11
AES-128-CBC Decrypt NIST KAT #12
aes_decrypt_cbc:"00000000000000000000000000000000":"00000000000000000000000000000000":"8ade895913685c67c5269f8ae42983e":"fffffffffffffffffffffffff8":0

AES-192-CBC Encrypt NIST KAT #1
aes_encrypt_cbc:"fffffffffffffffffffffffffffffffffffffff":"00000000000000000000000000000000":"39bde67d58ed8a8b1c37eb8fa9f5ac0":"fffffffffffffffffffffffffffffff":0

AES-192-CBC Encrypt NIST KAT #2
aes_encrypt_cbc:"fffffffffffffffffffffffffffffffffffffff":"00000000000000000000000000000000":"5674a3bed27bf4bd3622f9f5fe208306":0

AES-192-CBC Encrypt NIST KAT #3
aes_encrypt_cbc:"fffffffffffffffffffffffffffffffffffffff":"00000000000000000000000000000000":"b687f26a89cfbb8e5eac54055315e":0

AES-192-CBC Encrypt NIST KAT #4
aes_encrypt_cbc:"25a39dbfd8034f71a81f9ceb55026e4037f86fa30ab44ce":"00000000000000000000000000000000":"3608c344868e94555d23a120fa85502d":0

AES-192-CBC Encrypt NIST KAT #5
aes_encrypt_cbc:"e08c15411774e4a908b64eac6ae4199c7d453f339ef53":"00000000000000000000000000000000":"77da2021935b840b7f5d8539132da9e5":0

AES-192-CBC Encrypt NIST KAT #6
aes_encrypt_cbc:"3b375a1ff7e8444906e6326ec9dec86138e2ae010b980":"00000000000000000000000000000000":"3b7c24f825e3bf9873c9f14d39a0e6f4":0

AES-192-CBC Encrypt NIST KAT #7
aes_encrypt_cbc:"51719783d3185a535bd75ad65071ee1":"4f354592ff7c8847d2d0870ca9481b7c":0

AES-192-CBC Encrypt NIST KAT #8
aes_encrypt_cbc:"26aa49d7fe7629a8901a69a9914e64df":"d5e08bf9a182e857cf40b3a66ee248cc":0

AES-192-CBC Encrypt NIST KAT #9
aes_encrypt_cbc:"491a47730582223e1ef66fd10e0a6ee782":"067cd9d374920779184156250719626":0

AES-192-CBC Encrypt NIST KAT #10
aes_encrypt_cbc:"030d7e5b64f380a7e4ea5387b5cd7f49":0

AES-192-CBC Encrypt NIST KAT #11
AES-192-CBC Encrypt NIST KAT #1

AES-192-CBC Decrypt NIST KAT #1

AES-192-CBC Encrypt NIST KAT #2

AES-192-CBC Decrypt NIST KAT #2

AES-192-CBC Encrypt NIST KAT #3

AES-192-CBC Decrypt NIST KAT #3

AES-192-CBC Encrypt NIST KAT #4

AES-192-CBC Decrypt NIST KAT #4

AES-192-CBC Encrypt NIST KAT #5

AES-192-CBC Decrypt NIST KAT #5

AES-192-CBC Encrypt NIST KAT #6

AES-192-CBC Decrypt NIST KAT #6

AES-192-CBC Encrypt NIST KAT #7

AES-192-CBC Decrypt NIST KAT #7

AES-192-CBC Encrypt NIST KAT #8

AES-192-CBC Decrypt NIST KAT #8

AES-192-CBC Encrypt NIST KAT #9

AES-192-CBC Decrypt NIST KAT #9

AES-192-CBC Encrypt NIST KAT #10

AES-192-CBC Decrypt NIST KAT #10

AES-192-CBC Encrypt NIST KAT #11

AES-192-CBC Decrypt NIST KAT #11
AES-256-CBC Encrypt NIST KAT #12
aes_encrypt_cbc:"0000000000000000000000000000000000000000000000000000000000000000":"0000000000000000000000000000000000000000000000000000000000000000":0

AES-256-CBC Decrypt NIST KAT #1
aes_decrypt_cbc:"0000000000000000000000000000000000000000000000000000000000000000":"0000000000000000000000000000000000000000000000000000000000000000":0

AES-256-CBC Decrypt NIST KAT #2
aes_decrypt_cbc:"0000000000000000000000000000000000000000000000000000000000000000":"0000000000000000000000000000000000000000000000000000000000000000":0

AES-256-CBC Decrypt NIST KAT #3
aes_decrypt_cbc:"0000000000000000000000000000000000000000000000000000000000000000":"0000000000000000000000000000000000000000000000000000000000000000":0

AES-256-CBC Decrypt NIST KAT #4
aes_decrypt_cbc:"fffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff00000000000000000000000000000000":0

AES-256-CBC Decrypt NIST KAT #5
aes_decrypt_cbc:"fffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff00000000000000000000000000000000":0

AES-256-CBC Decrypt NIST KAT #6
aes_decrypt_cbc:"fffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff00000000000000000000000000000000":0

AES-256-CBC Decrypt NIST KAT #7
aes_decrypt_cbc:"fffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff00000000000000000000000000000000":0

AES-256-CBC Decrypt NIST KAT #8
aes_decrypt_cbc:"fffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff00000000000000000000000000000000":0

AES-256-CBC Decrypt NIST KAT #9
aes_decrypt_cbc:"fffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff00000000000000000000000000000000":0

AES-256-CBC Decrypt NIST KAT #10
aes_decrypt_cbc:"fffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff00000000000000000000000000000000":0
AES-256-CBC Decrypt NIST KAT #12

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):
Exponent: 65537 (0x10001)

X509v3 extensions:
X509v3 Basic Constraints:
CA:FALSE

X509v3 Subject Key Identifier:

X509v3 Authority Key Identifier:

Signature Algorithm: md2WithRSAEncryption
depends_on:POLARSSL_SHA1_C
rsa_pkcs1_verify:"206ef4bf396c6087f8229ef196fd35f37ccb8de5efcdb238f20d556668f114257a11fbe038464a67830
378e62ae9791453953dac1dbd7921837ba98e84e856eb80ed9487e656d0b20c28c8ba5e35db1abbed83ed1c7720a977
01f709e3547a4bfcabca9c89c57ad15c3996577a0ae36d7c7b699035242f37954646c1cd5c08ac":RSA_PKCS_V15:SI
G_RSA_SHA1:1024:16:"e28a13548525e5f36dccb24ecb7cc332cc689dfd64012604c9c7816d72a16c3f5fcdc0e86e7c
03280b1c69b586ce0cd8aec722cc73a5d3b730310bf7dfebdc77ce5d94bbc369dc18a2f7b07bd505ab0f82224aef09fdc
1e5063234255e0b3c40a52e9e8ae60898eb88a766bdd788fe9493d8fd86bcdd2884d5c06216c65469e5":16:"3":"5abc0
1f5de25b70867ff0c24e222c61f53c88daf42586fddcd56f3c4588f074be3c328056c063388688b6385a8167957c6e535
5a510e005b8a851d69c96b36ec6036644078210e5d7d326f96365ee0648882921492bc7b753eb9c26cdbab37555f210
df2ca6fec1b25b463d38b81c0dcea202022b04af5da58aa03d77be949b7":0
RSA PKCS1 Verify v1.5 CAVS #3
depends_on:POLARSSL_SHA1_C
rsa_pkcs1_verify:"206ef4bf396c6087f8229ef196fd35f37ccb8de5efcdb238f20d556668f114257a11fbe038464a67830
378e62ae9791453953dac1dbd7921837ba98e84e856eb80ed9487e656d0b20c28c8ba5e35db1abbed83ed1c7720a977
01f709e3547a4bfcabca9c89c57ad15c3996577a0ae36d7c7b699035242f37954646c1cd5c08ac":RSA_PKCS_V15:SI
G_RSA_SHA1:1024:16:"e28a13548525e5f36dccb24ecb7cc332cc689dfd64012604c9c7816d72a16c3f5fcdc0e86e7c
03280b1c69b586ce0cd8aec722cc73a5d3b730310bf7dfebdc77ce5d94bbc369dc18a2f7b07bd505ab0f82224aef09fdc
1e5063234255e0b3c40a52e9e8ae60898eb88a766bdd788fe9493d8fd86bcdd2884d5c06216c65469e5":16:"3":"5abc0
1f5de25b70867ff0c24e222c61f53c88daf42586fddcd56f3c4588f074be3c328056c063388688b6385a8167957c6e535
5a510e005b8a851d69c96b36ec6036644078210e5d7d326f96365ee0648882921492bc7b753eb9c26cdbab37555f210
df2ca6fec1b25b463d38b81c0dcea202022b04af5da58aa03d77be949b7":0
RSA PKCS1 Verify v1.5 CAVS #4
depends_on:POLARSSL_SHA2_C
rsa_pkcs1_verify:"867ac26e11a13b7ac34a42a1e177648692861226effb55bb597fbde10f299bf7fffd6fc8ddb2a46a73b
97b67387a461b23e1d65dc119366286979add615b926b9272832fc0c058b946fc752dcffceca12233f4c63f7897cbaa08
aa7e07cf02b5e7e3e5ece252bf2fe61d163bce84c0e0368454a98e9fdebf6edbd70b290d549b":RSA_PKCS_V15:SIG_
RSA_SHA224:1024:16:"e28a13548525e5f36dccb24ecb7cc332cc689dfd64012604c9c7816d72a16c3f5fcdc0e86e7c
03280b1c69b586ce0cd8aec722cc73a5d3b730310bf7dfebdc77ce5d94bbc369dc18a2f7b07bd505ab0f82224aef09fdc
1e5063234255e0b3c40a52e9e8ae60898eb88a766bdd788fe9493d8fd86bcdd2884d5c06216c65469e5":16:"3":"3bb7b
1c5f3391de4549e2e96fd33afa4d647dd90e321d9d576f3808e32213e948b697ef4fd2dd12923de6ec3ffd625078a57f86
af38dc07052bb50547c616ed51fa1352b3ab66788408168d21263ef2d3388d567d2ce8cf674f45491ab2b0319d47be12
66bda39e343b2a38ea2d6aaaee6c4465aee1d7bb33e93a1c40a8e3ae4":0
RSA PKCS1 Verify v1.5 CAVS #5
depends_on:POLARSSL_SHA2_C
rsa_pkcs1_verify:"cd810e97dc21095ea7a0238027a7bafd343e01444785ea9184a44a79f80438c41fc0b57aa95693407
da38fe5ff0ec1398e03361e51a3dbe134b99cca2df0cef1c444ca54d2b7db2789455b6bb41918c24001fd82fc20ee089de
3f34f053699c1c5f7954ce0aaabb9d26fce39d032894152229d98cf64ecafc7089530073c61d9":RSA_PKCS_V15:SIG
_RSA_SHA256:1024:16:"e28a13548525e5f36dccb24ecb7cc332cc689dfd64012604c9c7816d72a16c3f5fcdc0e86e7
c03280b1c69b586ce0cd8aec722cc73a5d3b730310bf7dfebdc77ce5d94bbc369dc18a2f7b07bd505ab0f82224aef09fdc
1e5063234255e0b3c40a52e9e8ae60898eb88a766bdd788fe9493d8fd86bcdd2884d5c06216c65469e5":16:"3":"7b5fb
a70ec5b521638f182bcab39cec30b76e7bc017bdbd1059658a9a1db0969ab482dce32f3e9865952f0a0de0978272c951
e3c015328ea3758f47029a379ab4200550fba58f11d51264878406fc717d5f7b72b3582946f16a7e5314a220881fc820f
7d29949710273421533d8ac0a449dc6d0fd1a21c22444edd1c0d5b44d3":0
RSA PKCS1 Verify v1.5 CAVS #6

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depends_on:POLARSSL_SHA4_C
rsa_pkcs1_verify:"f46373db8de525f589237bc81229c8966d3a2f24508502c42036330db80076d19a19486018b20
2074ada590aab9a92d8848e0a21b16d64daf2420256b393df29228008f3f13cc76a67cfedbd77a6e34293428240a6ba98d6
884094ac6a54bbcc8829930c52ef39e5e0cd02d9553e89f9d2e66bc6a904063584e2daeb3b":RSA_PKCS_V15:
SIG_RSA_SHA384:1024:16:"e28a13548525ef56edcb224ebc7cc332cc689dfd4012604c978167d72a16c35f5code0e8
6e7c03280b1c69b586ce0cd8ae722cc73a5d3b730310f7dbfdebd77ce5d94bce369dc18a2f7b07bd505ab0f82224aef0
9fd1c5063234255eb03c4a502e9e8a6089eb8a766bddd788fe9493d81868dced288d450621c65469e5":16:"3":
8f4ff4f4030bb3ea9f740a0c0f5cedbada4cb3eb9c994d16e7b00f5e2b940ee1e908ede1f3e14f61e909f4b25
bdac09f9a94f5e864298a60a6750f0bb5c54a07be3cf3d5d5addff974eeaf8be182a44ee1f4f653e71967ea11896ee1a8
50ed0b3eb44a3403738cb7a1be9616d3649bf78002b390a05a7e54edcede5":0

RSA PKCS1 Verify v.1.5 CAVS #7
depends_on:POLARSSL_SHA4_C
rsa_pkcs1_verify:"f013d2f2766fba7545b8f8cfe719471b2d53791887809694e8754f3b389f26c9253a758e8db84c62535a
8d5702d7a778731d5759f5f29b39f1b680se7916329186093e0e8ca25a2b75f6a07de144a377f69e4054455a4c5c
b8cefe4462ea945ce7f1f2189b4fe0b147ae8554d44ed96fa627a3ef508801871371234cd":RSA_PKCS_V15:
SIG_RSA_SHA384:1024:16:"e28a13548525ef56edcb224ebc7cc332cc689dfd4012604c978167d72a16c35f5code0e8
6e7c03280b1c69b586ce0cd8ae722cc73a5d3b730310f7dbfdebd77ce5d94bce369dc18a2f7b07bd505ab0f82224aef0
9fd1c5063234255eb03c4a502e9e8a6089eb8a766bddd788fe9493d81868dced288d450621c65469e5":16:"3":
8f4ff4f4030bb3ea9f740a0c0f5cedbada4cb3eb9c994d16e7b00f5e2b940ee1e908ede1f3e14f61e909f4b25
bdac09f9a94f5e864298a60a6750f0bb5c54a07be3cf3d5d5addff974eeaf8be182a44ee1f4f653e71967ea11896ee1a8
50ed0b3eb44a3403738cb7a1be9616d3649bf78002b390a05a7e54edcede5":0

RSA PKCS1 Verify v.1.5 CAVS #8
depends_on:POLARSSL_SHA4_C
rsa_pkcs1_verify:"f013d2f2766fba7545b8f8cfe719471b2d53791887809694e8754f3b389f26c9253a758e8db84c62535a
8d5702d7a778731d5759f5f29b39f1b680se7916329186093e0e8ca25a2b75f6a07de144a377f69e4054455a4c5c
b8cefe4462ea945ce7f1f2189b4fe0b147ae8554d44ed96fa627a3ef508801871371234cd":RSA_PKCS_V15:
SIG_RSA_SHA384:1024:16:"e28a13548525ef56edcb224ebc7cc332cc689dfd4012604c978167d72a16c35f5code0e8
6e7c03280b1c69b586ce0cd8ae722cc73a5d3b730310f7dbfdebd77ce5d94bce369dc18a2f7b07bd505ab0f82224aef0
9fd1c5063234255eb03c4a502e9e8a6089eb8a766bddd788fe9493d81868dced288d450621c65469e5":16:"3":
8f4ff4f4030bb3ea9f740a0c0f5cedbada4cb3eb9c994d16e7b00f5e2b940ee1e908ede1f3e14f61e909f4b25
bdac09f9a94f5e864298a60a6750f0bb5c54a07be3cf3d5d5addff974eeaf8be182a44ee1f4f653e71967ea11896ee1a8
50ed0b3eb44a3403738cb7a1be9616d3649bf78002b390a05a7e54edcede5":0

RSA PKCS1 Verify v.1.5 CAVS #9
depends_on:POLARSSL_SHA1_C
rsa_pkcs1_verify:"f013d2f2766fba7545b8f8cfe719471b2d53791887809694e8754f3b389f26c9253a758e8db84c62535a
8d5702d7a778731d5759f5f29b39f1b680se7916329186093e0e8ca25a2b75f6a07de144a377f69e4054455a4c5c
b8cefe4462ea945ce7f1f2189b4fe0b147ae8554d44ed96fa627a3ef508801871371234cd":RSA_PKCS_V15:
SIG_RSA_SHA1:1024:16:16:
"e28a13548525ef56edcb224ebc7cc332cc689dfd4012604c978167d72a16c35f5code0e8
6e7c03280b1c69b586ce0cd8ae722cc73a5d3b730310f7dbfdebd77ce5d94bce369dc18a2f7b07bd505ab0f82224aef0
9fd1c5063234255eb03c4a502e9e8a6089eb8a766bddd788fe9493d81868dced288d450621c65469e5":16:"3":
8f4ff4f4030bb3ea9f740a0c0f5cedbada4cb3eb9c994d16e7b00f5e2b940ee1e908ede1f3e14f61e909f4b25
bdac09f9a94f5e864298a60a6750f0bb5c54a07be3cf3d5d5addff974eeaf8be182a44ee1f4f653e71967ea11896ee1a8
50ed0b3eb44a3403738cb7a1be9616d3649bf78002b390a05a7e54edcede5":0

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RSA PKCS1 Verify v1.5 CAVS #10

depends_on: POLARSSL_SHA1_C
	nsa_pkcs1_verify: "55013a48e09b6553262aah59f0b41bf94376b8d528768fe5d0e5b77ca0fffc6e8ea2dd75c7b3b41
1cf4445d56235c5b0f0e58c49f128db1b4f3edf295e172d225c451e13deb3fb87b7aeaddf6d02f55f5efb712da789fa31
f3df94f789adec16ebece09d9a3f3de1908a04251c01f039f144988769596adc97aba30e": RSA_PKCS_V15: SIG
RSA_SHA1_SHA1:1024:16:"72a163c5fdec60e867e68ba6eb02a778c4ef0d617f4987a4b3913b57ce7777107a806245c5
303f377006c7676487baid5f7076b09bb7b9b4a6b18911919ab8cf73321c3312bdc7df565bfbec8332a886625bf56d0a35d4e
d79f0f9aee9f78935cece6506934ee449df7f5249caf6d6fd86c1a63": POLARSSL_ERR_RSA_INVALID_PADDING

RSA PKCS1 Verify v1.5 CAVS #11

depends_on: POLARSSL_SHA2_C
	nsa_pkcs1_verify: "f4a990b8d434a5914340c0a3a4e4a70856e55e13e938c1f854e91cdef54c610706d682a6e6f1ff1
2b1c6178ee0b26b5d8ae5ee4043db415146527f71313e9e17f47c6561abebc86a21367a89e41b47257c5ef36ecceaaaac
5b1aa756530497b97c35ab2e40442e0a2eda378a79c07b27d272aeade63d35b6c6f957d": RSA_PKCS_V15: SIG
RSA_SHA224_SHA256:1024:16:"58ef7bdc0f111b12495d6515b56bd3f272f4193823f135c10e975c70b266497716cb84f50393dcd6f505614fd
e2f73f54afce50a7d47f9821e2e0f3409ac1593eafe5b9d48c8ed2c928413f3378131356e6abfc3d7a4d80655925bf9
6f21872a2b3a2684b976ca768fe37eae20a96e9e3cc8f1d0eb3b34362":0

RSA PKCS1 Verify v1.5 CAVS #12

depends_on: POLARSSL_SHA4_C
	nsa_pkcs1_verify: "c810f4c97982971fa176d648f89812f869a4e9e4e4a8672ff10996a2d6d444a884e7a87c46061a1aa
b22558894ae59b789b45827f57e5b0acadcd94371902cc4ddb97acefed641997717eb3c74cd440f0a3e20fb9512c
ec740c366d1f07e36451464ca6f8a7ff2a39562ffd60e02b175839a29bf0c56d6d6de9c0998": RSA_PKCS_V15: SIG
RSA_SHA384_SHA512:1024:16:"92a13548525e5f36dcb24ebcc732c73a53d730310bf77fedbcc7ce5d94abb369d18a327f0b7db505ab082224afe09f
dc1e5063253245e0b3ca40a52e98e06898eb8a7666db7878ef9493d5f8d6bcedd2884df506216e56496e5":16:"1001"
1d8eb7f70d01b112b495dd515b6b63f71f27371493821385c10e975c70b266497716cb84f50393dcd6f505614fd
e2f73f54afce50a7d47f9821e2e0f3409ac1593eafe5b9d48c8ed2c928413f3378131356e6abfc3d7a4d80655925bf9
6f21872a2b3a2684b976ca768fe37eae20a96e9e3cc8f1d0eb3b34362":0

RSA PKCS1 Verify v1.5 CAVS #13

depends_on: POLARSSL_SHA4_C
	nsa_pkcs1_verify: "a978248717707897da979a111f1edefb1d11db9d46ca8008b008f0ad5aee5aa92e205d27a46c31d4fe6
eb909091bd2f1082f2b75074000ee46fc253e35d77b3a4c75d6f84530259503d0e2aafa19757625f5bea84323e9f101435
7f1f11b08b07619a101e4093f25ff8b5e65b6fbae6c97d7a4740b59224ed4ede035a7769": RSA_PKCS_V15: SIG
RSA_SHA384:1024:16:"e2a13548525e5f36dcb24ebcc732c73a53d730310bf77fedbcc7ce5d94abb369d18a327f0b7db505ab082224afe09fld
1e0563243255e0b3ca40a52e98e06898eb8a7666db7878ef9493d5f8d6bcedd2884df506216e56496e5":16:"1001"
5111f4f798da311bc13493493584ab0f9c79bbde908333a69b040f0a8e2cb2d763b378243943e23af7ca321d56
8a4a38c7d6c55c4bfbb380212dfc6b06487d20694d4287e233efdf7b04737c0337a592d0377801828b051991ce42b99f9
2420063315d5b2349918a6d4db6b5b21a2011ee7c74f48acedef958bd5df1f":0

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RSA PKCS1 Verify v1.5 CAVS #14

depends_on:POLARSSL_SHA4_C

rsa_pkcs1_verify:"4ce61930c79dc017c2dea0c50857d3a3b0e4a6f341e9a5061a6658a911e5edf95b0791a5f369969 c39e9e15788a8de66e792f4ec84f35082d52d562aa7ae127c72f22d3245f8s50f567d4afcf612cd44e6b9ce10ff91af09 432d24c3b088536d62a981e6989edcf3ea2622f7109d76e83d26a34dcfad656cf":"RSA_PKCS_V1.5:SIG_R
SHA_S5A12:1024:16":e28a13548525e5f36edce24ebc3c32cc6c8fd6f02127240e7b27a6c135f56d0e8e67c032801b69b58e6cd8ae87c273a3db730310b7dfbde7c7ee5d94bb3c69dc18a27f70b70d50b50b22242ae90f6d 1e50632432547b09d16a17d11c709b2488b789e9493df8d8edbcd2884d5c02612656496e":"10001":"2 728092eab5cb0f787ff6fa6b0151d6610a9dfad5215161132f186f38f3d893793d69a81e50ce2bd96f2de135aefda7817138 696c6c6d302e4a79dabbbe16e39ab9e60757775aefc86e83e4a86013cb457e4047e22d43f76bf64ae5e1d844a7e12ac969e0 ffb3cda7c0e0aca71f8a7ada9a0547bafae1ba2e040586e762083720d9":0

RSA PKCS1 Verify v1.5 CAVS #15

depends_on:POLARSSL_SHA1_C

rsa_pkcs1_verify:"224ec3d6b30581d9a498216366c741015a9723e54a3d6e7e2854fd0a846f54a6df167a25cc500c2f21 f7291aaf6d6af7a1b3dbd0481e2020d48396afaf3586b870a3187f260968af6c97e7a68ed52748e7125225021226 3a28f67753b7cfd8d919886d6b31027cb75b2488b789e9493df8d8edbcd2884d5c02612656496e":"10001":"2 728092eab5cb0f787ff6fa6b0151d6610a9dfad5215161132f186f38f3d893793d69a81e50ce2bd96f2de135aefda7817138 696c6c6d302e4a79dabbbe16e39ab9e60757775aefc86e83e4a86013cb457e4047e22d43f76bf64ae5e1d844a7e12ac969e0 ffb3cda7c0e0aca71f8a7ada9a0547bafae1ba2e040586e762083720d9":0

RSA PKCS1 Verify v1.5 CAVS #16

rsa_pkcs1_verify:"224ec3d6b30581d9a498216366c741015a9723e54a3d6e7e2854fd0a846f54a6df167a25cc500c2f21 f7291aaf6d6af7a1b3dbd0481e2020d48396afaf3586b870a3187f260968af6c97e7a68ed52748e7125225021226 3a28f67753b7cfd8d919886d6b31027cb75b2488b789e9493df8d8edbcd2884d5c02612656496e":"10001":"2 728092eab5cb0f787ff6fa6b0151d6610a9dfad5215161132f186f38f3d893793d69a81e50ce2bd96f2de135aefda7817138 696c6c6d302e4a79dabbbe16e39ab9e60757775aefc86e83e4a86013cb457e4047e22d43f76bf64ae5e1d844a7e12ac969e0 ffb3cda7c0e0aca71f8a7ada9a0547bafae1ba2e040586e762083720d9":0
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G_RSA_SHA256:1536:16:"a59d9b7269b102bf7be84f6e2845c2d8992e63231e77c90b78960c2638b35e6f6dbc1ac59e7249d96d426c7e993979eabeb6b8903f1942da580322b9baf5ac1b1bb911c39666f83866a2a2864f5520440300e6ce
d5a8c321e3c280413dcd1673c39a11b9b8a85486f8187a0f270185c412c284a19683805269776c070ef69d4913589f
a887ed40f57ed58bd806d0d49af41a176c238653cefe4f6f13a0edc29a36a0467073c3d5015d528c6606fbb5f8db4d349f
5fa4614757f2b8abe5fdd":16":"8117a697e14c183737661cf5714350a84ae0945ec9e886033582559f79701a
b424706666051ee5821a69a850647se6146176a625d1a38939932aaa52161fc0ca0825dbd2e0f85b3e9bc16de43e26
5ada30f5a601daee8bd6ed1e29ce34557b5f6962ebf10b945d60f596655688499fa16ea0ade6b9075e7b9151ef84243
1320d8273d35d0d1ad89c17e16e4eaf1cb233050b275fa9d2ca57e9e1a0e23139267040aa39b6abf810fa1ecc83e
2183573ddcf11626f2c62e1a0ced":0

RSA PKCS1 Verify v1.5 CAVS #18
depends_on:POLARSSL_SHA_C
rsa_pkcs1_verify:"f80c94a2b53736978ad041868ad97a2ab2a9e91c08bd4eeef6f2b8bd75a99b4506657188bb759
d7bd575921360327cb8f9ec30d90dd488ca7a1cabab3505a60af2af0aba5b2f90b1c743ec98c0fe26ab8219fbd95
05f981aababf7e7f3b3b384519d2529f2c5145757cb6b88fa71f63f23f2f6a5b23afface2432427c89":RSA_PKCS_V15:SIG
_RSA_SHA384:1536:16:"3":e8044e44010a2a7321e5a3f646ade99164a1ea281dfad2a250ce7d1e734e45c6a827b7ed17554939c3f024
1e0367402cb78475eb0e0839fd12810809a05f4b4bfl3b1faaf45b1f909ea8e916971fcdadacefa1945136cc6603
b905d78ed365c580638ecc883bedb86ef54ff446dbd517cd5c78b385154c78773653865163753222152429db56
12dcd304968b8f8efbe7d6ef5ef2f2b557f6dd49e8096171be2c1915ec79b9167a465afce67097b94908a54d
ab63d4bd6d0f9959ce17":0

RSA PKCS1 Verify v1.5 CAVS #19
depends_on:POLARSSL_SHA_C
rsa_pkcs1_verify:"4eb97094bb24aa58b040bd608afa3f2439969e939359b70394ca010434ee131a53ae9b9f7a55ae5
8e744f4a1505a3c524e054d08513ccd1e14c2c7fd95e4a6f594be1ba93fa1aa93d0uea0uff5ec4e4059577ebb3a3
e8044e44010a2a7321e5a3f646ade99164a1ea281dfad2a250ce7d1e734e45c6a827b7ed17554939c3f024
1e0367402cb78475eb0e0839fd12810809a05f4b4bfl3b1faaf45b1f909ea8e916971fcdadacefa1945136cc6603
b905d78ed365c580638ecc883bedb86ef54ff446dbd517cd5c78b385154c78773653865163753222152429db56
12dcd304968b8f8efbe7d6ef5ef2f2b557f6dd49e8096171be2c1915ec79b9167a465afce67097b94908a54d
ab63d4bd6d0f9959ce17":0

RSA PKCS1 Verify v1.5 CAVS #20
depends_on:POLARSSL_SHA_C
rsa_pkcs1_verify:"a3edb0f52c6166d7b76e1763476f14023373c9e967654900dcd7877e6055396b35e54c4ddffec4e98706
0178fe10b7e5e827a5c87050702ba6efed31cf4e63a429029e0bde625b66b53757cb026322743f48e319d053c4aeac3
4077ebeb8f96c2ef3757b2108f7888bd23d24e0b6b14e41875bc18ec56ac1f88259e826691be96":RSA_PKCS_V15:SIG
_RSA_SHA1:1536:16":"a59d9b7269b102bf7be84f6e2845c2d8992e63231e77c90b78960c2638b35e6f6dbc1ac59e7249d96d426c7e993979eabeb6b8903f1942da580322b9baf5ac1b1bb911c39666f83866a2a2864f5520440300e6ce
d5a8c321e3c280413dcd1673c39a11b9b8a85486f8187a0f270185c412c284a19683805269776c070ef69d4913589f
a887ed40f57ed58bd806d0d49af41a176c238653cefe4f6f13a0edc29a36a0467073c3d5015d528c6606fbb5f8db4d349f
5fa4614757f2b8abe5fdd":16":"8117a697e14c183737661cf5714350a84ae0945ec9e886033582559f79701a
b424706666051ee5821a69a850647se6146176a625d1a38939932aaa52161fc0ca0825dbd2e0f85b3e9bc16de43e26
5ada30f5a601daee8bd6ed1e29ce34557b5f6962ebf10b945d60f596655688499fa16ea0ade6b9075e7b9151ef84243
1320d8273d35d0d1ad89c17e16e4eaf1cb233050b275fa9d2ca57e9e1a0e23139267040aa39b6abf810fa1ecc83e
2183573ddcf11626f2c62e1a0ced":0
RSA PKCS1 Verify v1.5 CAVS #21
depends_on:POLARSSL_SHA1_C
rsa_pkcs1_verify="ae58fd024208d7f045d81a56cd55aad40ab86bd0216ab55137207aca23ea13480a5206accecd98
139b25965a4aaff764aad92937195240bc7050d523647b8b73e71d8525f28bd9ee895a8388ed5ced83bc3d4792
e8da97324a310396ce245a7123573fdd75584dfe04e2415425658588e08600df61bfad999f:RSA_PKCS_V1.5:SIG_RSA_SHA1:1536:16:a142b9d9456f8f477276252a08163a66e416bda17e127957c699ec95b8e1be9c2
4359a4ff0d51f4b6f316eaa11f33ee2ed217521f04c1b17b5071d01e3d1b581ab99edab8ef85c51816263e82f7a4f
7bf4ba41a38f3c384a5b1c3b4966ec387b9d192ac84e30934b37ae193155aff3b9c4d1bb2268df818c7d015b536
08c09ac73992812c0f1f321db45d747768bb999bcf3c05e5e2069593ccccede8517afc465be2f0affaba9b4601536ba8723
a5c6e766e3a446aef3ee327:POLARSSL_ERR_RSA_INVALID_PADDING

RSA PKCS1 Verify v1.5 CAVS #22
depends_on:POLARSSL_SHA2_C
rsa_pkcs1_verify="027f76a98524a2273d6f3c43646b989b0803812517949a096b49f1c36a4d7bacecc7e4c0c2
4b9701631691173b9b7c037dc39b4957fdec4a05f15f28a64de1b0007e22e836ff9fbi17db17ed2f7343bb5f5a4
158df568138cb90e2be7604de54cd974a2915682106858012901601ac0d8d51c4ef98a9:RSA_PKCS_V1.5:SIG_G_RSA_SHA224:1536:16:a142b9d9456f8f477276252a08163a66e416bda17e127957c699ec95b8e1be9c2
4359a4ff0d51f4b6f316eaa11f33ee2ed217521f04c1b17b5071d01e3d1b581ab99edab8ef85c51816263e82f7a4f
7bf4ba41a38f3c384a5b1c3b4966ec387b9d192ac84e30934b37ae193155aff3b9c4d1bb2268df818c7d015b536
08c09ac73992812c0f1f321db45d747768bb999bcf3c05e5e2069593ccccede8517afc465be2f0affaba9b4601536ba8723
a5c6e766e3a446aef3ee327:POLARSSL_ERR_RSA_INVALID_PADDING

RSA PKCS1 Verify v1.5 CAVS #23
depends_on:POLARSSL_SHA2_C
rsa_pkcs1_verify="027f76928a5824a2273d6f3c43646b989b0803812517949a096b49f1c36a4d7bacecc7e4c0c2
4b9701631691173b9b7c037dc39b4957fdec4a05f15f28a64de1b0007e22e836ff9fbi17db17ed2f7343bb5f5a4
158df568138cb90e2be7604de54cd974a2915682106858012901601ac0d8d51c4ef98a9:RSA_PKCS_V1.5:SIG_G_RSA_SHA224:1536:16:a142b9d9456f8f477276252a08163a66e416bda17e127957c699ec95b8e1be9c2
4359a4ff0d51f4b6f316eaa11f33ee2ed217521f04c1b17b5071d01e3d1b581ab99edab8ef85c51816263e82f7a4f
7bf4ba41a38f3c384a5b1c3b4966ec387b9d192ac84e30934b37ae193155aff3b9c4d1bb2268df818c7d015b536
08c09ac73992812c0f1f321db45d747768bb999bcf3c05e5e2069593ccccede8517afc465be2f0affaba9b4601536ba8723
a5c6e766e3a446aef3ee327:POLARSSL_ERR_RSA_INVALID_PADDING

RSA PKCS1 Verify v1.5 CAVS #23
depends_on:POLARSSL_SHA2_C
rsa_pkcs1_verify="027f76928a5824a2273d6f3c43646b989b0803812517949a096b49f1c36a4d7bacecc7e4c0c2
4b9701631691173b9b7c037dc39b4957fdec4a05f15f28a64de1b0007e22e836ff9fbi17db17ed2f7343bb5f5a4
158df568138cb90e2be7604de54cd974a2915682106858012901601ac0d8d51c4ef98a9:RSA_PKCS_V1.5:SIG_G_RSA_SHA224:1536:16:a142b9d9456f8f477276252a08163a66e416bda17e127957c699ec95b8e1be9c2
4359a4ff0d51f4b6f316eaa11f33ee2ed217521f04c1b17b5071d01e3d1b581ab99edab8ef85c51816263e82f7a4f
7bf4ba41a38f3c384a5b1c3b4966ec387b9d192ac84e30934b37ae193155aff3b9c4d1bb2268df818c7d015b536
08c09ac73992812c0f1f321db45d747768bb999bcf3c05e5e2069593ccccede8517afc465be2f0affaba9b4601536ba8723
a5c6e766e3a446aef3ee327:POLARSSL_ERR_RSA_INVALID_PADDING
RSA PKCS1 Verify v1.5 CAVS #24
depends_on:POLARSSL_SHA2_C
rsa_pkcs1_verify="1240028c6d7ab3992ada0e5ca55ee4f3d62f8de573502d5861d73685423c2e6a6d6fb3be090fbc2a7
01821b6d8d5e2833cf7946b459d3cb0b52b930ec134783077bfa9199d9c1bf93f8a9836556e0f08eebe4eb3e14ee80f1b8
931d8e894334d0d88a4d31a4596f52e3e496b8a2e72dc6c8c58d6e4d4040b3a169ca2b";RSA_PKCS_V15:SIG
RSA_SHA256:1536:16:"a59d9b7269b102b7be684e4e28d07043d051d5b8c660fbff85db4d3495f6a4175f72f88abef5ddd":16;
"a003ae99c00704d8763b121f214f04eec0099c566f25384e28d0dd540ec58705fc8d80fbc0eaa09069ed1e230146ed8b2056e396727abe092544079b66ec1ca2e6a540dec7aa344444d7435f4145fca9b0bbaab27599ae2780638e516e031bb60409c2e85674ac776b44a37b9fd1d9baa557e88b8562a584f2dbe9079292b41aeade95fdcc7e05b100deff0625cb589ff0e7c7ccf23354817856a118bfb90f0fd186cd2ca1ba4bfc380207562bb37562cc77c7883b5d735170d75521193d3f2b3";0

RSA PKCS1 Verify v1.5 CAVS #25
depends_on:POLARSSL_SHA4_C
rsa_pkcs1_verify="67922a889cbe95cf7c7e555ff2d73cfc6ee04c3d0f9dbfc8f64293a58d3ebd2eb21d271f1194e35c7c29
d0873d6b244914d21b0e599b23089e38e704e3f480e8f407d090ac93b08a57409368bb5e78cfce3e4ee4e4ca8f83416
8fe89bb68b454ce6ee67f3e80f82b3e885074a3e32f3d42323035ce379f1d00576941bf00d49a99";RSA_PK_CS_V15:SIG
_RSA_SHA384:1536:16:"a59d9b7269b102b7be684e4e28d07043d051d5b8c660fbff85db4d3495f6a4175f72f88abef5ddd":16;
"a003ae99c00704d8763b121f214f04eec0099c566f25384e28d0dd540ec58705fc8d80fbc0eaa09069ed1e230146ed8b2056e396727abe092544079b66ec1ca2e6a540dec7aa344444d7435f4145fca9b0bbaab27599ae2780638e516e031bb60409c2e85674ac776b44a37b9fd1d9baa557e88b8562a584f2dbe9079292b41aeade95fdcc7e05b100deff0625cb589ff0e7c7ccf23354817856a118bfb90f0fd186cd2ca1ba4bfc380207562bb37562cc77c7883b5d735170d75521193d3f2b3";0

RSA PKCS1 Verify v1.5 CAVS #26
depends_on:POLARSSL_SHA4_C
rsa_pkcs1_verify="13824a449698a999f8e4c6a46517c3aa6359c48e4264f6e5f1f69d77ae26133317e17defc03e14def6fffb4f2b7f86b5a435444a14f8f2feca0a165d443f0633ff4608154164f7194057db5f1f39349c9e232f48d6fdad8492bf0d3058f73f7e9be8c52f52b09a3d69153a0e8f1bb9d7ae43e8a3b66b8a5c7e8afad";RSA_PK_CS_V15:SIG_RS
_A_SHA512:1536:16:"a59d9b7269b102b7be684e4e28d07043d051d5b8c660fbff85db4d3495f6a4175f72f88abef5ddd":16;
"a003ae99c00704d8763b121f214f04eec0099c566f25384e28d0dd540ec58705fc8d80fbc0eaa09069ed1e230146ed8b2056e396727abe092544079b66ec1ca2e6a540dec7aa344444d7435f4145fca9b0bbaab27599ae2780638e516e031bb60409c2e85674ac776b44a37b9fd1d9baa557e88b8562a584f2dbe9079292b41aeade95fdcc7e05b100deff0625cb589ff0e7c7ccf23354817856a118bfb90f0fd186cd2ca1ba4bfc380207562bb37562cc77c7883b5d735170d75521193d3f2b3";0

RSA PKCS1 Verify v1.5 CAVS #27
depends_on:POLARSSL_SHA4_C
rsa_pkcs1_verify="428824a449698a999f8e4c6a46517c3aa6359c48e4264f6e5f1f69d77ae26133317e17defc03e14def6fffb4f2b7f86b5a435444a14f8f2feca0a165d443f0633ff4608154164f7194057db5f1f39349c9e232f48d6fdad8492bf0d3058f73f7e9be8c52f52b09a3d69153a0e8f1bb9d7ae43e8a3b66b8a5c7e8afad";RSA_PK_CS_V15:SIG_RS
_A_SHA512:1536:16:"a59d9b7269b102b7be684e4e28d07043d051d5b8c660fbff85db4d3495f6a4175f72f88abef5ddd":16;
"a003ae99c00704d8763b121f214f04eec0099c566f25384e28d0dd540ec58705fc8d80fbc0eaa09069ed1e230146ed8b2056e396727abe092544079b66ec1ca2e6a540dec7aa344444d7435f4145fca9b0bbaab27599ae2780638e516e031bb60409c2e85674ac776b44a37b9fd1d9baa557e88b8562a584f2dbe9079292b41aeade95fdcc7e05b100deff0625cb589ff0e7c7ccf23354817856a118bfb90f0fd186cd2ca1ba4bfc380207562bb37562cc77c7883b5d735170d75521193d3f2b3";0
RSA PKCS1 Verify v1.5 CAVS #27

depends_on:POLARSSL_SHAI_C

depends_on:POLARSSL_SHA1_C

depends_on:POLARSSL_SHA2_C

rsa_pkcs1_verify":"8471adc05c6f8b3efc29668b0b8d8d186715b0d5246e0460000837dc401512520bf51938c4fd1e6b6c42
e10d2d2cc0275c9b37f103a4096e20fe3d9d1fd85205e0c0a6a51598d23ca1361ef9e27691e9563301c4e1470bfb73ae99
9e29326aef69949503896d815052a0aef64d89bb7bceb00fffd1f30a9f7d9df4c06e0ab987":"RSA_PKCS_V15:SIG
_RSA_SHA1:1536:16:"a59d9b7269b102b7he684ec5e28db79992e6d3231e77c90b78960c26388b35ef6d6bac1ac59e7249d96d42e79f93979aebc688903f0e1942d5a5809b98bafac81b1b911e29666f83886aa2a2864f35520443000e60ced5
8a3c3l24c3e28041d3c41673c39a11b98a885486f8187a07f207185c4c12b4a8a196830529776c70f6e9f4913589a887
e4d0f5e7dd5bb8d06d0d4a14a1762ce3866ec4646ff13a0c129ca30a040703c3d051d5b28c6608bf5b8af4d34959ff6
417f57f2b8abe5fddd":"11":"180a03f781b1391aeabe5b35fe1d35b1c6a00d4efc6eb4afeb14217ae7cfa0ada0c099e
c1d6ed1e0f43b0986878533fe6e969173080af06fed635b6d3e43f64b5f84af9e8c10272ce3ca3452a85e0520cfd
c2d8d32dd99672d320756a2d7f1f269d3b3a48be17b3d34d9f1b44449c5bad1e91b7881f52450a007703ccbaa77b
9e8791f15eac87bf0553356f28f0cf103737123e33cf3d31f71db9ced2a31931ec380075ad40d19ace284124b0e5e6
e0746fb33c31a4d908c":0

RSA PKCS1 Verify v1.5 CAVS #28

depends_on:POLARSSL_SHAI_C

depends_on:POLARSSL_SHA1_C

depends_on:POLARSSL_SHA2_C

rsa_pkcs1_verify":"3bba64de38438a71b95ab9c49539595780c1b08d7a9937b600c0e96d65cd04b1eb0
0c31e9d49c7a0f6e6d03160d6ebec5aadad16aa6ef253f6e06d93faca8f89947c5546f3dbf6414dbf199f32c227c
c291780188888c31e9d49c7a0f6e6d03160d6ebec5aadad16aa6ef253f6e06d93faca8f89947c5546f3dbf6414dbf199f32c227c

depends_on:POLARSSL_SHA2_C

depends_on:POLARSSL_SHA1_C

depends_on:POLARSSL_SHA2_C

rsa_pkcs1_verify":f7857ce04bf4292ea71b95ab9c49539595780c1b08d7a9937b600c0e96d65cd04b1eb0
d8a14c6f4f10b8ed84ec5e2a8478684170a7f207185c4ec12b4a8a196830529776c70f6e9f4913589a887
e4d0f5e7dd5bb8d06d0d4a14a1762ce3866ec4646ff13a0c129ca30a040703c3d051d5b28c6608bf5b8af4d34959ff6
417f57f2b8abe5fddd":"11":"8c846e75e32ce595994dbdd86fcdf1d2996a64d6b233bcb1f6d394e13e8566918989bedd
18290a0f979790ca307271b310879534049051s3b2e6789e93722665e6b4ac43457295a313d107fd605e1336f6ea
efc58eda132d29395f693e0205af34544afa173f73482885e50dfb48333a15c0521e7a19642adc6d6fee3c7487ec912
46a2b083iac439889df5ae741b7e08c47937530b4b60f91a260cd07fe4a0dd530a01534b805eb9652118ee0e979329
66008aadfc833f8ba10dedeee":0

RSA PKCS1 Verify v1.5 CAVS #29

depends_on:POLARSSL_SHAI_C

depends_on:POLARSSL_SHA1_C

depends_on:POLARSSL_SHA2_C

rsa_pkcs1_verify":"f7857ce04bf4292ea71b95ab9c49539595780c1b08d7a9937b600c0e96d65cd04b1eb0
d8a14c6f4f10b8ed84ec5e2a8478684170a7f207185c4ec12b4a8a196830529776c70f6e9f4913589a887
e4d0f5e7dd5bb8d06d0d4a14a1762ce3866ec4646ff13a0c129ca30a040703c3d051d5b28c6608bf5b8af4d34959ff6
417f57f2b8abe5fddd":"11":"9677300bbee0303e3c4563f4ed5eb5eb152b63f466f84cf5a8e721ea0fafef83f7e99a6d
50741f234f49d302b3a3e8a7ac36eb99ab443818303468ae5527aa0f10752878292b312d0849098e09081ae177ed88
fe46af9d937a0871eb5d25ec48411e4cbeb7efea6ac213b12eca1513b0973e9edca7e94747e10a7769636f4eaa0c5da9013
ca5536781ac6b2ca2c779144de232a2e9875114aca885b3219df292d73940c5992ea3c4882889e7543430652860e44
1a01a45df94005a012421493":0

RSA PKCS1 Verify v1.5 CAVS #30

depends_on:POLARSSL_SHAI_C
RSA PKCS1 Verify v1.5 CAVS #31
depends on: POLARSSL_SHA4_C
rsa_pkcs1_verify:"ca312774f2756ac2019f123a01a63c9a04b4a49caafecf25e97a4e362668e3c77e664f4d7635241f250e50c37061b02c546db8346fa597c3dada8df4a287c5a4f4ecfcd1797b39a1b215d98b93d9fb6eb53babfa427a506888a6e19f86224b0897409491207e3c5e39085668b10b4f8b521b9d4965c03869790fe38a61b5":"RSA_PKCS_V1.5:SIG_RSA_SHA256:1536:16:"a59d9b7269b102b7e684ec5e28db79992e63231e77e9078960c2638b35e6fd6bda1ac59c7249d69d42e6799397eabeb6b8903f1e942da580322b98bafaced18bb19c29666f83886a2a284f635520440400e60cddd5a8c3e24820413dc41673c39a1b199a885486f8187a70f2701854c12b2a41986305269776c070e6fed94193589a8a87ed40f5ed7d588db860d49a14a1762c38665cefa46f6ff13ac0dc9a06460703c3d051d5b286c606bfb58b3f4d34945fa641757f278aeb5efdd":"3":"a202c33eb831b9d88188ebc36cd4b82481e9d292a06dd73a17a21e491d8e44dfd34a9066774ca606ea15db251880b88e89796c96f642a9975a5b405fbaef93f0e10d398d3e5d89ad9feecedd26658903f774bda481c3f30ee9569a3e2cda7a57dc7ed82159d933e636af9ee99367005e34ab50828d0f482763d7dabed88dbb023b601585329d2fccf1778e8c508aa2a297510073df11669296981d44c8af991305dc7af071725b4d96859314a9f9b90ebc7803559414294:"POLARSSL_ERR_RSA_INVALID_PADDING"

RSA PKCS1 Verify v1.5 CAVS #32
depends on: POLARSSL_SHA4_C
rsa_pkcs1_verify:"2abe070977290ceb6c68a05c61062ce8da81841bf99a19f2860ed900e651856ec64bf19c0d91c88a2b076ccc50a3ef3a3ddae004454d4d76c1ae60891d72b6aa26a332744ff7ae7a7d661b5e651135cf2f1a0af6a4b2ad18fe582e72438484f284716069f1c6f0d780710fcb6f6b480825eb688614928f21d21e7080:"RSA_PKCS_V1.5:SIG_RSA_SHA384:1536:16:"a59d9b7269b102b7e684ec5e28db79992e63231e77e9078960c2638b35e6fd6bda1ac59e7249d69d42e6799397eabeb68903f1e942da580322b98bafaced81bb911c29666f83886a2a284f635520440400e60c60c5a8c3124e284013dc41673c39a1b199a885486f8187a70f2701854c12b2a41986305269776c070e6fed94193589a87c4d0f5e7dd588db860d49a14a1762c38665cefa46f6ff13a0cdd29a3c60460703c3d051d5b286c606bfb58b3f4d3495ffaf641757f278aeb5efdd":"10001":"0426313f3cdbb02ec4d9eb58ef1a1b7b262b78a50e12e95873c9702bdf64f78af970aecc52fc6fd9a10f809993728eb090ae2ac21edc9fd8ace819f53eb34d07521b1c0ee59f3a72a14245b038aa09e102fa35ec937b3cd14352e8aaff80173561284cb7470999a3c6653a63c3d5a3911a14f6fe14215083982c99eb599a0a74d77f1ae9999d01ee24af2e242179a39fb20dcb0349b1e884e6077beee175e81b0426c4ad08d48273d19b0eb33177bf8be3fed7174061bcee0c2ea3:"POLARSSL_ERR_RSA_INVALID_PADDING"

RSA PKCS1 Verify v1.5 CAVS #33
depends on: POLARSSL_SHA4_C
rsa_pkcs1_verify:"d9050890dc92e68d8e01a1857d2052d6677c40d98f4577c1659ca7d3e9f019a80906551b54ef29723fe2c9d1ee7a39f72d51c6e1dca00b028596b9f244d90be14eae8f087bc4a35b073aeb29ecde4aaf3620373d7adbde43d418f70866b95bca8c3ed7d5b353a42a040441f088e2e2b6259539a2d8b8a5a74065":"RSA_PKCS_V1.5:SIG_RSA_SHA384:1536:16:"a59d9b7269b102b7e684ec5e28db79992e63231e77e9078960c2638b35e6fd6bda1ac59e7249d69d42e6799397eabeb68903f1e942da580322b98bafaced81bb911c29666f83886a2a284f635520440400e60c60c5a8c3124e284013dc41673c39a1b199a885486f8187a70f2701854c12b2a41986305269776c070e6fed94193589a87c4d0f5e7dd588db860d49a14a1762c38665cefa46f6ff13a0cdd29a3c60460703c3d051d5b286c606bfb58b3f4d3495ffaf641757f278aeb5efdd":"11":"57edd0560d9f40a25c28ff62d54e432395a5cd2d2248b344de7ab0ef6c5b3e4545a916a89e089745119db9e97999a880f5250b589c9e12da1b6e0a639b3b36368392a253a4b53e5e499bdce82d0f0f79502a30a5c3308819c1139eb7c70e13cfe67774aff34acbb1db3bfafed628858ec9222ff5deac8b8cc6dd27f2e959ec3075011b382e884c2b7b83b4f2ef6da022e331c360219f5ac7bcccfe95e9eal093d736d6b9d01ae5b1f468cd0b5b5362f91d85c27a0757e757b7":0
RSA PKCS1 Sign #2 Verify (Fail)  
depends_on:POLARSSL_SHA2_C  
rsa_pkcs1_verify:"5977fd2a39e566404cf4e167b6b0aeffccced7c8aed7ad2bd9a464e93d04198d48466b8da7445f52bfa19d
b844eded5c8f5593cf7772cc132b483169d390db2a43bc4e0f03f86f5668f88744774ebc2f6efac2d690ee3143a915ac
468628805905a68eb8f8a96674b093c495eedd8704461ea2b2345ebbb2ad6930cad8023f8b0:"RSA_PKCS_V15_SIG:"RSA_PKCS1_V25:2048:"f33dcf170155590f0e9a7d1707889e848de336b7fe2f6c485ddca94607a4ff379fc
49d375f730249dd1a210e7dced762612c23c7532e769c6a88e3e8654f09f0b34df0c7ba90e89099ec1ed:"0"  

RSA PKCS1 Sign #3 (SHA224, 2048 bits RSA)  
depends_on:POLARSSL_SHA2_C  
rsa_pkcs1_verify:"5977fd2a39e566404cf4e167b6b0aeffccced7c8aed7ad2bd9a464e93d04198d48466b8da7445f52bfa19db844eded5c8f5593cf7772cc132b483169d390db2a43bc4e0f03f86f5668f88744774ebc2f6efac2d690ee3143a915ac468628805905a68eb8f8a96674b093c495eedd8704461ea2b2345ebbb2ad6930cad8023f8b0:"RSA_PKCS_V15_SIG:"RSA_PKCS1_V25:2048:"f33dcf170155590f0e9a7d1707889e848de336b7fe2f6c485ddca94607a4ff379fc
49d375f730249dd1a210e7dced76361c23c7532e769c6a88e3e8654f09f0b34df0c7ba90e89099ec1ed:"POLARSSL_ER_rsa_invalidPadding"  

RSA PKCS1 Sign #3 (SHA224, 2048 bits RSA)  
depends_on:POLARSSL_SHA2_C  
rsa_pkcs1_verify:"5977fd2a39e566404cf4e167b6b0aeffccced7c8aed7ad2bd9a464e93d04198d48466b8da7445f52bfa19db844eded5c8f5593cf7772cc132b483169d390db2a43bc4e0f03f86f5668f88744774ebc2f6efac2d690ee3143a915ac468628805905a68eb8f8a96674b093c495eedd8704461ea2b2345ebbb2ad6930cad8023f8b0:"RSA_PKCS_V15_SIG:"RSA_PKCS1_V25:2048:"f33dcf170155590f0e9a7d1707889e848de336b7fe2f6c485ddca94607a4ff379fc
49d375f730249dd1a210e7dced76361c23c7532e769c6a88e3e8654f09f0b34df0c7ba90e89099ec1ed:"POLARSSL_ER_rsa_invalidPadding"  

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RPCS1 Sign #4 (SHA384, 2048 bits RSA)
depends_on:POLARSSL_SHA4_C
rsa_pks1_sign:0x59779fd2a39e566404c4e1e67b6b0aeffced78aede7ad2bdafa4e6493d04198d484668b8a445f2bfa19db2844edd5c8f5937c9a231cd283816939d0828a43b4e0e038f566f5ffe8744746eb72e6ecad2fdd90ec134a915ac4688028805905a6e8eb8f8a96764b093c459edd870446e1aa2b345e4fb2a69390aced8023f870:RSA_PKCS_V15:SIG

RSA PKCS1 Sign #4 Verify
depends_on:POLARSSL_SHA4_C
rsa_pks1_verify:0x59779fd2a39e566404c4e1e67b6b0aeffced78aede7ad2bdafa4e6493d04198d484668b8a445f2bfa19db2844edd5c8f5937c9a231cd283816939d0828a43b4e0e038f566f5ffe8744746eb72e6ecad2fdd90ec134a915ac4688028805905a6e8eb8f8a96764b093c459edd870446e1aa2b345e4fb2a69390aced8023f870:RSA_PKCS_V15:SIG

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 7424
Open Source Used In HyperFlex HX Data Platform 5.0(2a)

RSA PKCS1 Sign #5 (MD2, 2048 bits RSA)
depends_on:POLARSSL_MD2_C
da_rskc1_sign_="59779fd2a39e566404cf1e67b60aefceccd78aed7ad2bdffa46493d04198d4846688da7445f25bfa19d
b2844ed5c8f539cf772cc132b2d83169390d28a43bce4ee0f038f6586ff8e87447746c72fefa2d690ee3143a915ac46
88028805905a6eb88a96647b093c495edde7804461ea2b3b4efbbd29603ad082038f70":RSA_PKCS_V15:SIGN_RSA_MD2:2048:e="79a373182b2f7a227bee03f772ad2a9464bd842de5943c1b8bab3a7dfeee13e99b5e487861ab
665a404b6dc5a60152578e8579016c929df99ea05b4d6f4eac1d54385058e816b40d47edf77fa4105df0bf90b9da21a
e182c8a4f4f975bea9aa09b1a438a27a2e897ac33800ef737834141db6d4067d997ac050424fd1":="6:76494cbb0db8c
5a177672d4728a8b223292bf2c4f3b3861d5c05d55a1b4e46d821f757c24e2eaf51c56191b93bace7340074c058c9b
b48e774f14f42c24d1a4e45cc5cb0919e30c56867bf18a1f2a52995592ad1393bea2995592ad1393be429d6574e04b0edcedeafa31f3b394
21e24ee034f3bf367d11f6bb88e4838d16b34b3e1654ad3e89":="6:b38ae65c8141f7f5c96e14470e851936a6b7f944cc68
21a39ac12c05f7c06d9e6e6db2224703b02e25314529fe4a8417b62675fdcd4f6494813bc79b769a892c428b3f0b
ef0a4d2e46666c6f68917a6f68f4ubf1c8ee4b0402d7c37f61dc4543c463b45e43ee0fc970980597997826e67f883
363255adb0ad22401030a97bc1b4ecf0be6ec8396d2ad8ee6ec59599dld549cb21490965eabdb203b3525575626
c0d990c9f3c3b8b8428cb4b44de471db151316cd98429c2259453d391ce0ab5351979a38101c1737db145899bd47a
2095c0160d642f5d3d6b238399d755227391d460da78c36d455345914184cb80b61a7b4ca10234":="3:"=4ccb0e4019d6d45dcd248a434465ecb7679d91b199b875cd3e7ae0820c443ad212cd29107f3cb315e9526a06e7a
d4a3542015d9d6eb5ac998fd5df1afa3e908abe151f3f7b07363aaee6b06ed440d359f19886f136a0387cbb3ed3
6a0362dd8eb881147fa45d4a2e34ec29f60ad7d7746731425858eb93661363b7a90942fca3ed9594b4
e1700524d4106543513800782e76235def3d4014135bad8dae590200428235c3416c366417e80d9f5c635a4563
683247b577445ced0be2765c996e4ce45213204026d8ba245e889e1a75538ba397149a5ac0fc12d753bc128418d4a
8e2d410ec3633d804adb4304":0

RSA PKCS1 Sign #5 Verify
depends_on:POLARSSL_MD2_C
da_rskc1_sign Verify="59779fd2a39e566404cf1e67b60aefceccd78aed7ad2bdffa46493d04198d4846688da7445f25bfa19d
9db28844ed5c8f539cf772cc132b2d83169390d28a43bce4ee0f038f6586ff8e87447746c72fefa2d690ee3143a915ac46
4688028805905a6eb88a96647b093c495edde7804461ea2b3b4efbbd29603ad082038f70":RSA_PKCS_V15:SIGN_RSA_MD2:2048:e="b38ae65c8141f7f5c96e14470e851936a6b7f944cc68
21a39ac12c05f7c06d9e6e6db2224703b02e25314529fe4a8417b62675fdcd4f6494813bc79b769a892c428b3f0b
ef0a4d2e46666c6f68917a6f68f4ubf1c8ee4b0402d7c37f61dc4543c463b45e43ee0fc970980597997826e67f883
363255adb0ad22401030a97bc1b4ecf0be6ec8396d2ad8ee6ec59599dld549cb21490965eabdb203b3525575626
c0d990c9f3c3b8b8428cb4b44de471db151316cd98429c2259453d391ce0ab5351979a38101c1737db145899bd47a
2095c0160d642f5d3d6b238399d755227391d460da78c36d455345914184cb80b61a7b4ca10234":="3:"=4ccb0e4019d6d45dcd248a434465ecb7679d91b199b875cd3e7ae0820c443ad212cd29107f3cb315e9526a06e7a
d4a3542015d9d6eb5ac998fd5df1afa3e908abe151f3f7b07363aaee6b06ed440d359f19886f136a0387cbb3ed3
6a0362dd8eb881147fa45d4a2e34ec29f60ad7d7746731425858eb93661363b7a90942fca3ed9594b4
e1700524d4106543513800782e76235def3d4014135bad8dae590200428235c3416c366417e80d9f5c635a4563
683247b577445ced0be2765c996e4ce45213204026d8ba245e889e1a75538ba397149a5ac0fc12d753bc128418d4a
8e2d410ec3633d804adb4304":0

RSA PKCS1 Sign #6 (MD4, 2048 bits RSA)
depends_on:POLARSSL_MD4_C
da_rskc1_sign_="59779fd2a39e566404cf1e67b60aefceccd78aed7ad2bdffa46493d04198d4846688da7445f25bfa19d
b2844edd5c8f539c7f772cc132b483169d390db28a43bc4ee00f38f6568ffe87447746cb72f6eac2d690e03143915ac46
88028805090a68e8b8faa96674b093c495edd8704464b824ed45932ec18bbba37fae318e9815ee487861ab
665a40b0dca560152578e8579016e929df99eaf5b4d64ecfa15d38508b8164b4d0d71ed73f3fa405d0f0b9b92da186
e182e84a4ff975eaa9a0b91a438a2a7a28e897ac8330ef73783414dbd64067d96979ac050424df17":16":c7649bb0db8
5a177762d427288a222392c24f3db38615cd50505a1b4e4d6d21775f7e24eaf2a5c1561941b9337eac737404705c8s9b
b48e7e7414f42c41da4cccb5c2ba91de30c3867b6f18a12a52995592a1393db3e429add6547e044becedaf31afab394
21e24e30f3b367d11f6b8f88ee483d163b31e1654ad38e99":16":b38ace65c8141f7f5c96e14470e851936a76b94c66892a18c
21a39ac12cf050696ed6d6da2224703b02e25f152945176f26756f2df6d49b4813bc7b9769a892482b830bfe0ad42e46668ae690371a6f18f4bab1c8e4b402d3c7f61d645434c654e362637b58cd2d69c51fb6b894cf93f19216781e696f75c43665f3dc2c82b2a0017984207":0

RSA PKCS Sign #6 Verify
depends_on:POLARSSL_MD4_C
rsa_pkcs1_verify:"59779fd2a39e566404cffe67b6b0affeced7c8ade7ad2bfda464e39d4014984d6688da744525bfa1
9d8b2844ed5c8f539c7f772cc132b483169d390db28a43bc4ee00f38f6568ffe87447746cb72f6eac2d690e03143915ac46
488028805090a68e8b8faa96674b093c495edd8704464b824ed45932ec18bbba37fae318e9815ee487861ab
88028805090a68e8b8faa96674b093c495edd8704464b824ed45932ec18bbba37fae318e9815ee487861ab
665a40b0dca560152578e8579016e929df99eaf5b4d64ecfa15d38508b8164b4d0d71ed73f3fa405d0f0b9b92da186
e182e84a4ff975eaa9a0b91a438a2a7a28e897ac8330ef73783414dbd64067d96979ac050424df17":16":c7649bb0db8
5a177762d427288a222392c24f3db38615cd50505a1b4e4d6d21775f7e24eaf2a5c1561941b9337eac737404705c8s9b
b48e7e7414f42c41da4cccb5c2ba91de30c3867b6f18a12a52995592a1393db3e429add6547e044becedaf31afab394
21e24e30f3b367d11f6b8f88ee483d163b31e1654ad38e99":16":b38ace65c8141f7f5c96e14470e851936a76b94c66892a18c
21a39ac12cf050696ed6d6da2224703b02e25f152945176f26756f2df6d49b4813bc7b9769a892482b830bfe0ad42e46668ae690371a6f18f4bab1c8e4b402d3c7f61d645434c654e362637b58cd2d69c51fb6b894cf93f19216781e696f75c43665f3dc2c82b2a0017984207":0

RSA PKCS Sign #7 (MD5, 2048 bits RSA)
depends_on:POLARSSL_MD4_C
rsa_pkcs1_sign:"59779fd2a39e566404cffe67b6b0affeced7c8ade7ad2bfda464e39d4014984d6688da744525bfa1
9d8b2844ed5c8f539c7f772cc132b483169d390db28a43bc4ee00f38f6568ffe87447746cb72f6eac2d690e03143915ac46
488028805090a68e8b8faa96674b093c495edd8704464b824ed45932ec18bbba37fae318e9815ee487861ab
88028805090a68e8b8faa96674b093c495edd8704464b824ed45932ec18bbba37fae318e9815ee487861ab
665a40b0dca560152578e8579016e929df99eaf5b4d64ecfa15d38508b8164b4d0d71ed73f3fa405d0f0b9b92da186
e182e84a4ff975eaa9a0b91a438a2a7a28e897ac8330ef73783414dbd64067d96979ac050424df17":16":c7649bb0db8
5a177762d427288a222392c24f3db38615cd50505a1b4e4d6d21775f7e24eaf2a5c1561941b9337eac737404705c8s9b
b48e7e7414f42c41da4cccb5c2ba91de30c3867b6f18a12a52995592a1393db3e429add6547e044becedaf31afab394
21e24e30f3b367d11f6b8f88ee483d163b31e1654ad38e99":16":b38ace65c8141f7f5c96e14470e851936a76b94c66892a18c
21a39ac12cf050696ed6d6da2224703b02e25f152945176f26756f2df6d49b4813bc7b9769a892482b830bfe0ad42e46668ae690371a6f18f4bab1c8e4b402d3c7f61d645434c654e362637b58cd2d69c51fb6b894cf93f19216781e696f75c43665f3dc2c82b2a0017984207":0
RSA PKCS1 Sign #8 Verify

rsa_pkcs1_verify_raw:"59779fd2a39e56640c4fc1e67b60aefced78ae7ad2bdf4a64e93d04198d48466b8da7445f25bfa19db2844edd5c8f539e7f772ce1328483169390d2b8a43bc4ee0f038f6568ffe87447746cb72febac2d690ee3143a9
15ac46880288059059a68eb8f8a96676b093c495edd8704461ea2b345efbb2ad6930cad80328170":"1234567890deadbeef" RSA_PKCS1_V5:12048:16:"b38ac6ca03969a7b9753e1f86b09171bb5796c9a12051fc6b06d96d6ed
2b24247030e2bf5f154f9ec48a147b765fd6c64f98413c87b9769a829482b38030e9e0ad4246668ace869801761fa
f6681f4babf1cc8e4b0420d3c76f1dc454346b5e423ee0efc07908509d79c9826e673bf83632552a0dadd2041039a7bc
d1b4ec0febe6bece83692da4a8ee595599d5d49e24919096eafdbad203b35255756261cd0909a9e3b38b8428cb4
48de47151b18d109d482ca2292554393ca0eadb5351f97a380117d371b1458979daed2409c5e0160d6d2d5bfa12c3
8993d755222793146d0a78c3d64f5554141846c3b0961a7b4c1a2034f":"3":"605baf947c0de4964f6ad0dbf94a3aca1318d5df8ed20ba4baa5a37a37f3b009ce95e9ce8beb70a25b1cb7580f3890df7092485cedfa022088b70d33482edf07a7afebeb
c54862ca0ce03969a7b9753e1f86b09171bb5796c9a12051fc6b06d96d6ed
b224247030e2bf5f154f9ec48a147b765fd6c64f98413c87b9769a829482b38030e9e0ad4246668ace869801761fa
f6681f4babf1cc8e4b0420d3c76f1dc454346b5e423ee0efc07908509d79c9826e673bf83632552a0dadd2041039a7bc
d1b4ec0febe6bece83692da4a8ee595599d5d49e24919096eafdbad203b35255756261cd0909a9e3b38b8428cb4
48de47151b18d109d482ca2292554393ca0eadb5351f97a380117d371b1458979daed2409c5e0160d6d2d5bfa12c3
8993d755222793146d0a78c3d64f5554141846c3b0961a7b4c1a2034f":"3":"605baf947c0de4964f6ad0dbf94a3aca1318d5df8ed20ba4baa5a37a37f3b009ce95e9ce8beb70a25b1cb7580f3890df7092485cedfa022088b70d33482edf07a7afebeb
c54862ca0ce03969a7b9753e1f86b09171bb5796c9a12051fc6b06d96d6ed
b224247030e2bf5f154f9ec48a147b765fd6c64f98413c87b9769a829482b38030e9e0ad4246668ace869801761fa
f6681f4babf1cc8e4b0420d3c76f1dc454346b5e423ee0efc07908509d79c9826e673bf83632552a0dadd2041039a7bc
d1b4ec0febe6bece83692da4a8ee595599d5d49e24919096eafdbad203b35255756261cd0909a9e3b38b8428cb4
48de47151b18d109d482ca2292554393ca0eadb5351f97a380117d371b1458979daed2409c5e0160d6d2d5bfa12c3
8993d755222793146d0a78c3d64f5554141846c3b0961a7b4c1a2034f":"3":"605baf947c0de4964f6ad0dbf94a3aca1318d5df8ed20ba4baa5a37a37f3b009ce95e9ce8beb70a25b1cb7580f3890df7092485cedfa022088b70d33482edf07a7afebeb
c54862ca0ce03969a7b9753e1f86b09171bb5796c9a12051fc6b06d96d6ed
b224247030e2bf5f154f9ec48a147b765fd6c64f98413c87b9769a829482b38030e9e0ad4246668ace869801761fa
f6681f4babf1cc8e4b0420d3c76f1dc454346b5e423ee0efc07908509d79c9826e673bf83632552a0dadd2041039a7bc
d1b4ec0febe6bece83692da4a8ee595599d5d49e24919096eafdbad203b35255756261cd0909a9e3b38b8428cb4
48de47151b18d109d482ca2292554393ca0eadb5351f97a380117d371b1458979daed2409c5e0160d6d2d5bfa12c3

RSA PKCS1 Sign #7 Verify (Invalid digest type)

RSA PKCS1 Sign #8 (Invalid padding type)

RSA PKCS1 Sign #9 Verify (Invalid Digest type)

RSA PKCS1 Sign #10 Verify (Invalid Digest type)
RSA PKCS1 Sign #8 Verify (Invalid padding type)
rsa_pkcs1_verify:"59779fd2a39e56640c4fc1e67b60aeffcecd78aed7ad2bdfa464e93d04198d48466b8da7445f25bfa1
9db2844edd5c8f539cf772cc132b483169d390db28a43bc4ee0f038f6568ffc87447746cb72fefac2d6d90ee3143a915ac
4688028805905a68eb8f8a96674b093c495eddd8704461eaa2b345efbb2ad6930acd8023f870":1:SIG_RSA_MD5:204
8:16:"b38ac65c8141f7f5c96e14470e851936a67bf94cc6821a39ac12c05f7c0b06d9e6ddba2224703b02e25f31452f9c
4a8417b62675fdc6df46b94813bc7b9769a892c482b830bfe0ad42e46668ace68903617faf6681f4babf1cc8e4b0420d3
c7f61dc45434c6b54e2c3ee0fc07908509d79c9826e673bf8363255adb0add2401039a7bcd1b4ecf0fbe6ec8369d2da48
6eec59559dd1d54c9b24190965eafbdab203b35255765261cd0909acf93c3b8b8428cbb448de4715d1b813d0c94829c
229543d391ce0adab5351f97a3810c1f73d7b1458b97daed4209c50e16d064d2d5bfda8c23893d755222793146d0a78c
3d64f35549141486c3b0961a7b4c1a2034f":16:"3":"3bcf673c3b27f6e2ece4bb97c7a37161e6c6ee7419ef366efc3cfee
0f15f415ff6d9d4390937386c6fec1771acba73f24ec6b0469ea8b88083f0b4e1b6069d7bf286e67cf94182a548663137e
82a6e09c35de2c27779da0503f1f5bedfebadf2a875f17763a0564df4a6d945a5a3e46bc90fb692af3a55106aafc6b5775
87456ff8d49cfd5c299d7a2b776dbe4c1ae777b0f64aa3bab27689af32d6cc76157c7dc6900a3469e18a7d9b6bfe4951d
1105a08864575e4f4ec05b3e053f9b7a2d5653ae085e50a63380d6bdd6f58ab378d7e0a2be708c559849891317089ab0
4c82d8bc589ea088b90b11dea5cf85856ff7e609cc1adb1d403beead4c126ff29021":POLARSSL_ERR_RSA_INVAL
ID_PADDING
RSA PKCS1 Encrypt #1
rsa_pkcs1_encrypt:"4E636AF98E40F3ADCFCCB698F4E80B9F":RSA_PKCS_V15:2048:16:"b38ac65c8141f7f5c
96e14470e851936a67bf94cc6821a39ac12c05f7c0b06d9e6ddba2224703b02e25f31452f9c4a8417b62675fdc6df46b9
4813bc7b9769a892c482b830bfe0ad42e46668ace68903617faf6681f4babf1cc8e4b0420d3c7f61dc45434c6b54e2c3e
e0fc07908509d79c9826e673bf8363255adb0add2401039a7bcd1b4ecf0fbe6ec8369d2da486eec59559dd1d54c9b241
90965eafbdab203b35255765261cd0909acf93c3b8b8428cbb448de4715d1b813d0c94829c229543d391ce0adab5351f
97a3810c1f73d7b1458b97daed4209c50e16d064d2d5bfda8c23893d755222793146d0a78c3d64f35549141486c3b09
61a7b4c1a2034f":16:"3":"b0c0b193ba4a5b4502bfacd1a9c2697da5510f3e3ab7274cf404418afd2c62c89b98d83bbc2
1c8c1bf1afe6d8bf40425e053e9c03e03a3be0edbe1eda073fade1cc286cc0305a493d98fe795634c3cad7feb513edb742
d66d910c87d07f6b0055c3488bb262b5fd1ce8747af64801fb39d2d3a3e57086ffe55ab8d0a2ca86975629a0f85767a49
90c532a7c2dab1647997ebb234d0b28a0008bfebfc905e7ba5b30b60566a5e0190417465efdbf549934b8f0c5c9f36b7c
5b6373a47ae553ced0608a161b1b70dfa509375cf7a3598223a6d7b7a1d1a06ac74d345a9bb7c0e44c8388858a4f1d81
15f2bd769ffa69020385fa286302c80e950f9e2751308666c":0
RSA PKCS1 Decrypt #1 (Verify)
rsa_pkcs1_decrypt:"a42eda41e56235e666e7faaa77100197f657288a1bf183e4820f0c37ce2c456b960278d6003e0bbc
d4be4a969f8e8fd9231e1f492414f00ed09844994c86ec32db7cde3bec7f0c3dbf6ae55baeb2712fa609f5fc3207a824eb
3dace31849cd6a6084318523912bccb84cf42e3c6d6d1685131d69bb545acec827d2b0dfdd5568b7dcc4f5a11d691658
3fefa689d367f8c9e1d95dcd2240895a9470b0c1730f97cd6e8546860bd254801769f54be96e16362ddcbf34d5603502
8890199e0f48db38642cb66a4181e028a6443a404fea284ce02b4614b683367d40874e505611d23142d49f06feea831d
52d347b13610b413c4efc43a6de9f0b08d2a951dc503b6":RSA_PKCS_V15:2048:16:"e79a373182bfaa722eb035f772
ad2a9464bd842de59432c18bbab3a7dfeae318c9b915ee487861ab665a40bd6cda560152578e8579016c929df99fea05
b4d64efca1d543850bc8164b40d71ed7f3fa4105df0fb9b9ad2a18ce182c8a4f4f975bea9aa0b9a1438a27a28e97ac8330
ef37383414d1bd64607d6979ac050424fd17":16:"c6749cbb0db8c5a177672d4728a8b22392b2fc4d3b8361d5c0d505
5a1b4e46d821f757c24eef2a51c561941b93b3ace7340074c058c9bb48e7e7414f42c41da4cccb5c2ba91deb30c586b7f
b18af12a52995592ad139d3be429add6547e044becedaf31fa3b39421e24ee034fbf367d11f6b8f88ee483d163b431e16
54ad3e89":16:"b38ac65c8141f7f5c96e14470e851936a67bf94cc6821a39ac12c05f7c0b06d9e6ddba2224703b02e25f
31452f9c4a8417b62675fdc6df46b94813bc7b9769a892c482b830bfe0ad42e46668ace68903617faf6681f4babf1cc8e4
b0420d3c7f61dc45434c6b54e2c3ee0fc07908509d79c9826e673bf8363255adb0add2401039a7bcd1b4ecf0fbe6ec836
9d2da486eec59559dd1d54c9b24190965eafbdab203b35255765261cd0909acf93c3b8b8428cbb448de4715d1b813d0

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c94829c229543d931ce0adab5351f97a3810c1f73d7b1458b97daed4209c50e16d064dd25bdfa8c23893d755227973146d0a78c3d64f35549141846cb30961ab74c1a2034f:"16":"3.0000:"4E636AF9E40F3ADFCFCB698F4E808B9F":0

RSA PKCS1 Encrypt #2 (Data too large)

rsa_pkcs1_encrypt:"b38ace6c81411f75c6e814470e851936a67bf946cc821a93ac12c05fc0b069ed6da2224703b02e25f3145292dac48417b62675fd6f46b948313cb7c9796a892c482b8306a042e46666ace68903617fa66f814babf1c8e4b4020d3c37f61dec453a4eb54e2ce3ee0f0790809d7979826e673bf83632555d0adbadd2401039a7bc1e4ce0fb6ebe8c3869d22486ee59599dd1d54e9b2419096eafadb2033525576261cd0909ac93c3b8b8482cb4484de4715d1b13d0ec94829c229543d931ce0adab5351f97a3810c1f73d7b1458b97daed4209c50e16d064dd25bdfa8c23893d755227293146d0a78c3d64f35549141846cb30961ab74c1a2034f:"16":"3.0000:"4E636AF9E40F3ADFCFCB698F4E808B9F":0

RSA PKCS7_Encrypt #2: RSA PKCS1 Encrypt #2 (Data too large)

rsa_pkcs1_encrypt:"b38ace6c81411f75c6e814470e851936a67bf946cc821a93ac12c05fc0b069ed6da2224703b02e25f3145292dac48417b62675fd6f46b948313cb7c9796a892c482b8306a042e46666ace68903617fa66f814babf1c8e4b4020d3c37f61dec453a4eb54e2ce3ee0f0790809d7979826e673bf83632555d0adbadd2401039a7bc1e4ce0fb6ebe8c3869d22486ee59599dd1d54e9b2419096eafadb2033525576261cd0909ac93c3b8b8482cb4484de4715d1b13d0ec94829c229543d931ce0adab5351f97a3810c1f73d7b1458b97daed4209c50e16d064dd25bdfa8c23893d755227293146d0a78c3d64f35549141846cb30961ab74c1a2034f:"16":"3.0000:"4E636AF9E40F3ADFCFCB698F4E808B9F":0

RSA PKCS1 Encrypt #3 (Invalid padding mode)

rsa_pkcs1_encrypt:"4E636AF9E40F3ADFCFCB698F4E808B9F":2.0.24:16:"b38ace6c81411f75c6e814470e851936a67bf946cc821a93ac12c05fc0b069ed6da2224703b02e25f3145292dac48417b62675fd6f46b948313cb7c9796a892c482b8306a042e46666ace68903617fa66f814babf1c8e4b4020d3c37f61dec453a4eb54e2ce3ee0f0790809d7979826e673bf83632555d0adbadd2401039a7bc1e4ce0fb6ebe8c3869d22486ee59599dd1d54e9b2419096eafadb2033525576261cd0909ac93c3b8b8482cb4484de4715d1b13d0ec94829c229543d931ce0adab5351f97a3810c1f73d7b1458b97daed4209c50e16d064dd25bdfa8c23893d755227293146d0a78c3d64f35549141846cb30961ab74c1a2034f:"16":"3.0000:"4E636AF9E40F3ADFCFCB698F4E808B9F":0

POLARSSL.ERR_RSA_BAD_INPUT_DATA

POLARSSL.ERR_RSA_BAD_INPUT_DATA

POLARSSL.ERR_RSA_BAD_INPUT_DATA

POLARSSL.ERR_RSA_BAD_INPUT_DATA

POLARSSL.ERR_RSA_BAD_INPUT_DATA

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POLARSSL.ERR_RSA_BAD_INPUT_DATA

POLARSSL.ERR_RSA_BAD_INPUT_DATA

POLARSSL.ERR_RSA_BAD_INPUT_DATA

POLARSSL.ERR_RSA_BAD_INPUT_DATA
RSA PKCS1 Decrypt #3 (Invalid padding mode)
rsa_pks1_decrypt: "a42eda41e56253e666e7faaa77100197f657288a1bf18e4820f0c37e2c456b960278d6003e0bb

dbe4a49e69f8e8fd29311e1f94241f00ed0d9844949c86ec32db7cde3bec70c3df8a5e5baeb2712fa609f5f6c3207a824eb
3dace31849c6da08403185239112bceb84cf4e2c3ed6d61d685131d69bb55ace827d02d5d568b7dc4f5a11d691658
3f6a689d3678c9e1d95dcded2248095a94700b1730f97cde8516160197545f6275f1a4e552b7de11e6362d4ef39d630502
89901990f498db38642b66a141e02ba86443a404f3ad347b40874a505611d21342d49f06fee8a31d52d347bb1361
0b413ce4ef3a6a9f0b082a951dc503b6:";POLARSSL_ERR_RSA_INVALID_PADDING

RSA PKCS1 Decrypt #4 (Output buffer too small)
rsa_pks1_decrypt: "a42eda41e56235e666e7faaa77100197f657288a1bf18e4820f0c37e2c456b960278d6003e0bb

dbe4a49e69f8e8fd29311e1f94241f00ed0d9844949c86ec32db7cde3bec70c3df8a5e5baeb2712fa609f5f6c3207a824eb
3dace31849c6da08403185239112bceb84cf4e2c3ed6d61d685131d69bb55ace827d02d5d568b7dc4f5a11d691658
3f6a689d3678c9e1d95dcded2248095a94700b1730f97cde8516160197545f6275f1a4e552b7de11e6362d4ef39d630502
89901990f498db38642b66a141e02ba86443a404f3ad347b40874a505611d21342d49f06fee8a31d52d347bb13610b413ce4ef3a6a9f0b082a951dc503b6:";POLARSSL_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:"e79a373182bfa722e0b35772ad2a9464b8d42e59432a40b6dca6d50152578e859016ec9299f09ea5b4d6e64fa15d45
8508c8164f40d71ed77f3a4105df09b9ad2a18e182ca44f9757e9a0a9b143a2a7a28e97ac8330e7f837338141d1b
64607d6979ac504241d7:";16:00;"e4636af98e40f3adfcbb69f8e80b9f";POLARSSL_ERR_RSA_INVALID_PADDING

RSA Check empty private key
rsa_check_privkey_null:

RSA Check Private key #1 (Correct)
r rsa_check_privkey:2048:16:"e79a373182bfa722e0b35772ad2a9464b8d42e59432a40b6dca6d50152578e859016ec9299f09ea5b4d6e64fa15d45
8508c8164f40d71ed77f3a4105df09b9ad2a18e182ca44f9757e9a0a9b143a2a7a28e97ac8330e7f837338141d1b
64607d6979ac504241d7:";16:00;"e4636af98e40f3adfcbb69f8e80b9f";POLARSSL_ERR_RSA_OUTPUT_TOO_LARGE
RSA Check Private key #3 (No Q)

r RSA_check_privkey:2048:16:"e79a373182bfaa2722e0305f772ad2a9464bd4824d5e9342c18bbba3a7dfeae318c9b915ee48786aab665a40b6dca560152578e85790116929df99eaf05bd4dfe6cfa1d54538580bc81640b4d041ed7f3a4105df0f9b9
9ad2a18ce182ca4a4f975be9aaf09b9a1438a2a72a8e97ac830ef37383414d1bd64607d6979ac050424df1d16":"":"b38ac8ec581a1417ff5c9e14470e851939a67bf94c6821a93ac402f09c069e9adda22473tob2e25f314529e4a84176b267f6d6f94b1387969a824892e569a8f4e62c46668ace68903617afa661f4abac8ce84b402d0c3f1d6c45434cb654b2e3ee0f1c70985095979c9862e673b8f363250bad0a04103a7bc1d4ec0f0be6ec8369d2da846ec5f9595dd1d54c9b24190966afadbdb203b35255765261cd0909ac9f3c83b88b248cb448d4715d1b83d0c094829229543

RSA Check Private key #4 (No N)

r RSA_check_privkey:2048:16:"e79a373182bfaa2722e0305f772ad2a9464bd4824d5e9342c18bbba3a7dfeae318c9b915ee48786aab665a40b6dca560152578e85790116929df99eaf05bd4dfe6cfa1d54538580bc81640b4d041ed7f3a4105df0f9b9
9ad2a18ce182ca4a4f975be9aaf09b9a1438a2a72a8e97ac830ef37383414d1bd64607d6979ac050424df1d16":"":"b38ac8ec581a1417ff5c9e14470e851939a67bf94c6821a93ac402f09c069e9adda22473tob2e25f314529e4a84176b267f6d6f94b1387969a824892e569a8f4e62c46668ace68903617afa661f4abac8ce84b402d0c3f1d6c45434cb654b2e3ee0f1c70985095979c9862e673b8f363250bad0a04103a7bc1d4ec0f0be6ec8369d2da846ec5f9595dd1d54c9b24190966afadbdb203b35255765261cd0909ac9f3c83b88b248cb448d4715d1b83d0c094829229543

d391ce0adab5351f97a381c01173d7df14589b79dad4d2095e1e60d62d15bfda8c2839957522793416ad078c64f3
5549141486cb0961a7b4ca1a2037":"":"77B1D99300D6A54E864962DA9E9A010CF19A7F8BB88456BC2672B2A32B24094493D161C8A42D01E3CF7621E8BD70282A796EF953D9E2A26F80D282D264F11B0C8301D0207FBEE2C9844548999800AC7EA44EF014DBB14D402CD280D28F992D88748DE8C289EB2

RSA Check Private key #5 (No S)

"RSA Check Private key #3 (No Q)"
RSA Check Private key #10 (Incorrect)
rsa_check_privkey:2048:16:"e79a373182bfaa722eb035f772ad2a9464bd842de59432c18bbab3a7dfeae318c9b915ee
487861ab665a40bd6cda560152578e8579016c929df99fea05b4d64efca1d543850bc8164b40d71ed7f3fa4105df0fb9b
9ad2a18ce182c8a4f4f975bea9aa0b9a1438a27a28e97ac8330ef37383414d1bd64607d6979ac050424fd17":16:"c6749
cbb0db8c5a177672d4728a8b22392b2fc4d3b8361d5c0d5055a1b4e46d821f757c24eef2a51c561941b93b3ace734007
4c058c9bb48e7e7414f42c41da4cccb5c2ba91deb30c586b7fb18af12a52995592ad139d3be429add6547e044becedaf3
1fa3b39421e24ee034fbf367d11f6b8f88ee483d163b431e1654ad3e89":16:"b38ac65c8141f7f5c96e14470e851936a6
7bf94cc6821a39ac12c05f7c0b06d9e6ddba2224703b02e25f31452f9c4a8417b62675fdc6df46b94813bc7b9769a892c
482b830bfe0ad42e46668ace68903617faf6681f4babf1cc8e4b0420d3c7f61dc45434c6b54e2c3ee0fc07908509d79c98
26e673bf8363255adb0add2401039a7bcd1b4ecf0fbe6ec8369d2da486eec59559dd1d54c9b24190965eafbdab203b35
255765261cd0909acf93c3b8b8428cbb448de4715d1b813d0c94829c229543d391ce0adab5351f97a3810c1f73d7b145
8b97daed4209c50e16d064d2d5bfda8c23893d755222793146d0a78c3d64f35549141486c3b0961a7b4c1a2034f":16:"
3":16:"77B1D99300D6A54E864962DA09AE10CF19A7FB888456BC2672B72AEA52B204914493D16C184AD2
01EC3F762E1FBD8702BA796EF953D9EA2F26300D285264F11B0C8301D0207FEB1E2C984445C899B0ACEB
AA74EF014DD1D4BDDB43202C08D2FF9692D8D788478DEC829EB52AFB5AE068FBDBAC499A27FACECC
391E75C936D55F07BB45EE184DAB45808E15722502F279F89B38C1CB292557E5063597F52C75D61001EDC3
3F4739353E33E56AD273B067C1A2760208529EA421774A5FFFCB3423B1E0051E7702A55D80CBF2141569F1
8F87BFF538A1DA8EDBB2693A539F68E0D62D77743F89EACF3B1723BDB25CE2F333FA63CACF0E67DF1A
431893BB9B352FCC":16:"9A66CF76572A71A17475794FA1C8C70D987E581E990D772BB27C77C53FF1ECB
B31260E9EDAFAEBC79991807E48918EAB8C3A5F03A600F30C69511546AE788EDF53168E2D035D300EDC
D5E4BF3AA2A6D603EA0A7BD11E1C1089657306DF8A64E7F1BC6B266B825C1A6C5F0FC85775F4CF7ACD
63367E42EAFE46511D58AD6DFE0F":16:"844DBDD20925D9164F9A1E2F707076C261CCA8337D0241392B38
AE3C12342F3AC14F8FD6DF4A1C36839662BD0D227344CD55A32AE5DBD2309A9A2B8A2C82BE6DDDDC
E81D1B694775D9047AA765CA0C6E1BB8E61C8B7BE27ED711E8EE2FEAD87F3491F76A6D2262C14189EA
CDFD4CEFE0BF9D0A5B49857E0ED22CBEB98DC8D45B":16:"4951A7B174DF972C37BADCC38457B5EDD1
F078BC613E75CE25E08814E12461C7A1C189A70EB8138294298D141244C7A9DE31AB4F6D38B40B04D6353
CD30F77ADBF66BBDE41C7BE463C5E30AAA3F7BAD6CEE99506DEAAFA2F335C1B1C5C88B8ABB0D038
7EE0D1B4E7027F7F085A025CEDB5CCE18B88C0462F1C3C910D47C0D4AB":POLARSSL_ERR_RSA_KEY_
CHECK_FAILED
RSA Check Public key #1 (Correct)
rsa_check_pubkey:16:"b38ac65c8141f7f5c96e14470e851936a67bf94cc6821a39ac12c05f7c0b06d9e6ddba2224703
b02e25f31452f9c4a8417b62675fdc6df46b94813bc7b9769a892c482b830bfe0ad42e46668ace68903617faf6681f4ba
bf1cc8e4b0420d3c7f61dc45434c6b54e2c3ee0fc07908509d79c9826e673bf8363255adb0add2401039a7bcd1b4ecf0f
be6ec8369d2da486eec59559dd1d54c9b24190965eafbdab203b35255765261cd0909acf93c3b8b8428cbb448de4715d
1b813d0c94829c229543d391ce0adab5351f97a3810c1f73d7b1458b97daed4209c50e16d064d2d5bfda8c23893d7552
22793146d0a78c3d64f35549141486c3b0961a7b4c1a2034f":16:"3":0
RSA Check Public key #2 (Even N)
rsa_check_pubkey:16:"b38ac65c8141f7f5c96e14470e851936a67bf94cc6821a39ac12c05f7c0b06d9e6ddba2224703
b02e25f31452f9c4a8417b62675fdc6df46b94813bc7b9769a892c482b830bfe0ad42e46668ace68903617faf6681f4ba
bf1cc8e4b0420d3c7f61dc45434c6b54e2c3ee0fc07908509d79c9826e673bf8363255adb0add2401039a7bcd1b4ecf0f
be6ec8369d2da486eec59559dd1d54c9b24190965eafbdab203b35255765261cd0909acf93c3b8b8428cbb448de4715d
1b813d0c94829c229543d391ce0adab5351f97a3810c1f73d7b1458b97daed4209c50e16d064d2d5bfda8c23893d7552
22793146d0a78c3d64f35549141486c3b0961a7b4c1a20340":16:"3":POLARSSL_ERR_RSA_KEY_CHECK_FAIL
ED
RSA Check Public key #3 (Even E)

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RSA Check Public key #4 (N exactly 128 bits)
rsa_check_pubkey:16:"b38ac65e81411f7f5c96e14470e851936a67bf94cc6821a39ac12c0f57c0b069e6dda2224703b02e25f154529c4a8417b62675fd6cd6f4b98413bc7b9769a892c282b308fe0ad2e46668ace68903617fa6681f4baf1c8e4b0420d3c7f61dc45434c6b54e2ce3e60fc079085090d7c9826e673bf8363255ad0add4201039a7bcd114ec0ffbe66cc83692da486ee5c59559dd1d546cb92194996eafdbadb3b35255762561cd0909ac93c3bb8842cb6d48de4715d1b183dc094829c229543d391ced0adb353197a3810c11737db1458979daed4209c5e016d064d2dbd8ac23893d755222793146da78c3d64f55549141846ec3b0961a7b4c1a20340":16:"65536":POLARSSL_ERR_RSA_KEY_CHECK_FAILED

RSA Check Public key #5 (N smaller than 128 bits)
rsa_check_pubkey:16:"fedcba9876543210deadbeefcafe4321":16:"3":0

RSA Check Public key #6 (N exactly 4096 bits)
rsa_check_pubkey:16:"00b38ac65e81411f7f5c96e14470e851936a67bf94cc6821a39ac12c0f57c0b069e6dda2224703b02e25f154529c4a8417b62675fd6cd6f4b98413bc7b9769a892c282b308fe0ad2e46668ace68903617fa6681f4babf1c8e4b0420d3c7f61dc45434c6b54e2ce3e60fc079085090d7c9826e673bf8363255ad0add4201039a7bcd114ec0ffbe66cc83692da486ee5c59559dd1d546cb92194996eafdbadb3b35255762561cd0909ac93c3bb8842cb6d48de4715d1b183dc094829c229543d391ced0adb353197a3810c11737db1458979daed4209c5e016d064d2dbd8ac23893d755222793146da78c3d64f55549141846ec3b0961a7b4c1a20340":16:"3":POLARSSL_ERR_RSA_KEY_CHECK_FAILED

RSA Check Public key #7 (N larger than 4096 bits)
rsa_check_pubkey:16:"00b38ac65e81411f7f5c96e14470e851936a67bf94cc6821a39ac12c0f57c0b069e6dda2224703b02e25f154529c4a8417b62675fd6cd6f4b98413bc7b9769a892c282b308fe0ad2e46668ace68903617fa6681f4babf1c8e4b0420d3c7f61dc45434c6b54e2ce3e60fc079085090d7c9826e673bf8363255ad0add4201039a7bcd114ec0ffbe66cc83692da486ee5c59559dd1d546cb92194996eafdbadb3b35255762561cd0909ac93c3bb8842cb6d48de4715d1b183dc094829c229543d391ced0adb353197a3810c11737db1458979daed4209c5e016d064d2dbd8ac23893d755222793146da78c3d64f55549141846ec3b0961a7b4c1a20340":16:"3":0

RSA Check Public key #8 (E exactly 2 bits)
rsa_check_pubkey:16:"01b38ac65e81411f7f5c96e14470e851936a67bf94cc6821a39ac12c0f57c0b069e6dda2224703b02e25f154529c4a8417b62675fd6cd6f4b98413bc7b9769a892c282b308fe0ad2e46668ace68903617fa6681f4babf1c8e4b0420d3c7f61dc45434c6b54e2ce3e60fc079085090d7c9826e673bf8363255ad0add4201039a7bcd114ec0ffbe66cc83692da486ee5c59559dd1d546cb92194996eafdbadb3b35255762561cd0909ac93c3bb8842cb6d48de4715d1b183dc094829c229543d391ced0adb353197a3810c11737db1458979daed4209c5e016d064d2dbd8ac23893d755222793146da78c3d64f55549141846ec3b0961a7b4c1a20340":16:"3":POLARSSL_ERR_RSA_KEY_CHECK_FAILED

RSA Check Public key #9 (E exactly 1 bit)
rsa_check_pubkey:16:"01b38ac65e81411f7f5c96e14470e851936a67bf94cc6821a39ac12c0f57c0b069e6dda2224703b02e25f154529c4a8417b62675fd6cd6f4b98413bc7b9769a892c282b308fe0ad2e46668ace68903617fa6681f4babf1c8e4b0420d3c7f61dc45434c6b54e2ce3e60fc079085090d7c9826e673bf8363255ad0add4201039a7bcd114ec0ffbe66cc83692da486ee5c59559dd1d546cb92194996eafdbadb3b35255762561cd0909ac93c3bb8842cb6d48de4715d1b183dc094829c229543d391ced0adb353197a3810c11737db1458979daed4209c5e016d064d2dbd8ac23893d755222793146da78c3d64f55549141846ec3b0961a7b4c1a20340":16:"1":POLARSSL_ERR_RSA_KEY_CHECK_FAILED
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RSA Check Public key #8 (E exactly 64 bits)
r rsa_check_pubkey:16: "fedcba9876543210deadbeefcafe4321":16: "00fedcba9876543210":0

RSA Check Public key #8 (E larger than 64 bits)
r rsa_check_pubkey:16: "fedcba9876543210deadbeefcafe4321":16: "01fedcba9876543213":POLARSSL_ERR_RSA_KEY_CHECK_FAILED

RSA Private (Correct)
r rsa_private:"59779fd2a39e56640c4f1e67b60aefeced7ea8ed72b2d464a93d04198d484668b84a44edd5c8f539c9f772cc132b483169d390db28a43bc4eeef03f381e6568fc87447746cb72fe4af2d6909e3143a915ace46880 28880590a68eb8896674ab093c495edd87704461eaa2b5fd6ba9693ad0902a3870f8704a482048:16: e79a373182bfa472eb035f7772da29a464bd842de5943218b3bab37a3e1389b15ee487861a6665a40dbceda560152578e8579016c92 9df99fee0a5b4d6e4efc1a5d43850b8c8164b40d71ed77f3a4105df0f8b9ada218ae182e8af4f975b9e9a09ba914383a27a2 8e979ac33oef373384141dbd64607d69799ac050424df17:16: c67498cb0b0db8c5a177767d4728a8b2239222f2c4de3b43d881 1d5c0d5055a1b4e46d6821f75c724eef2a51c561941b93bace7340074c05899cb84e7e47144c41ca4ccbcc5b2a91deb 30c586b7f18af1a2f29595592ad1393d3b42a99d6d547e04b0eecedaf31a3b39421e24e03f367d116b8f831ee84383d16 3b3a1e1654ad3e89:16: b38ac65c8d177f6c15460c0851827518e60f969c6b74a1939a12c05f7c0b06d969da6232470 3b02e25f3145f2c4a8417b62675f67dad6f46b94138c7b97969a892c482b830fe0ad2e46666ace86903617fa66814f 3b1c1ec4b80420d437c761de454334b654e2c0e0f7098059079ce83635539e28721786769bb9444a2f31a73517b5b83e362552a1db02d104039a7c7ed1b4ece0f5be6e38692da4868ec6959596d1d54ce190918192a6d920b3db52035434f15b6236f81e0620641d28c3983d755 22272931460d8c7ae3e4f4b278527d5d53579ad515d88c17e6758b86a22d97bca2f261efce8f668e906736191f0eae9d39f9d2049134b3d90d6ed7f19d10daebf2 c50f46e54aeb3a89113def85e8be67764aef922e2ce4f203a47a56535539e62872178768bb872f8abc449e8e779642fe0f 2ff9e8e6108aea2e52b6b6b72b88e0fa383517b5b8808facf7639feced1692419e97c987085049e5e08a758d989f2b2 d411d881c3e3f2a4341a19029d21d3d3543746b162982ea322b2d1c4ba7f467806e020d46f782f73781084510349b 2b747e0a51a619e44300edac33c12f9e6e414da814af0d3ea4395a8524574bc60d290d117a62e90a67:0

RSA Private (Data larger than N)

rsa_private="38ac65c8d1417f5f59e6144f7b8e851936a67b9f46821a39ac12c05f7c0b06d969da6224703b02e25f31 4529f9e4a8417b62675f67dad6f46b94138c7b97969a892c482b830fe0ad2e46666ace86903617fa66814f1c8e4b0 4203e7f161dc45434c6b54e2e3ee0fc0790809079ce8266736b318632552a0dbadd20104097a9bdc14e0efb0e63c8639d 2da84geec6e59596d1d54c9b2419096eafdbd203b3b38b82482c4844de4715d1b813d0c9 4829c229543d391ce0adab535197a8301c1f73d7b1458979daed4209c5e0160d642d5bfda8c3893d755 22272931460d8c7ae3e4f4b278527d5d53579ad515d88c17e6758b86a22d97bca2f261efce8f668e906736191f0eae9d39f9d2049134b3d90d6ed7f19d10daebf2 c50f46e54aeb3a89113def85e8be67764aef922e2ce4f203a47a56535539e62872178768bb872f8abc449e8e779642fe0f 2ff9e8e6108aea2e52b6b6b72b88e0fa383517b5b8808facf7639feced1692419e97c987085049e5e08a758d989f2b2 d411d881c3e3f2a4341a19029d21d3d3543746b162982ea322b2d1c4ba7f467806e020d46f782f73781084510349b 2b747e0a51a619e44300edac33c12f9e6e414da814af0d3ea4395a8524574bc60d290d117a62e90a67:0"
RSA Public (Correct)

rrsa_public::59777962a39e56640c4fc1e67b60afecedcc78ad7ad2bdf4a46e46d04918d48466b8da744f525bfa19db2844ed5c8f539c7772c1328483169d390d2ba4a34ce4e0f038f56ef8ca74774767cb2f4d0eadfa2d690e03413a915ac4688028805905a68eb88ab96674b093c495edd8704461ea2b345ebfb2ad6930cad8023f870":2048:16:"b38ac65c81417ff5c96e14470e851936a67bf94cc6821a39ac12c05f7c0b696e066d2ba224703b02e25f13f425f9e4817b62675f6dcedf64b94813bc7976b9a89274283b070fe3606e037a7ca3e763080b13f58e778ac7c6d5769e90ec5a79ad84ecea7e4472be3553b0d2c7783dac0f5020cb27ca374378b19780b04b0c1d5df8ec8bc093da314f66d76c7ce578359d29d29e0a0399feb9f5df1b9f2b016f040797ed29402094498f8097aaba0b01a8c8301f0fcb877b2b0686e1b29cb1814bb06f9c024857dbd543958aada9a2ce6f9f53b9a8be0c12ab0c360a3eefc08092e85d9d232e3a50ca8cbe49c3430f3960ff7d956d0025e582a2cc57d301888310e8e3383b394a5cf0599101e":0

RSA Public (Data larger than N)

rsa_public::b38ac65c81417ff5c96e14470e851936a67bf94cc6821a39ac12c05f7c0b696e066d2ba224703b02e25f13f425f9e4817b62675f6dcedf64b94813bc7976b9a89274283b070fe3606e037a7ca3e763080b13f58e778ac7c6d5769e90ec5a79ad84ecea7e4472be3553b0d2c7783dac0f5020cb27ca374378b19780b04b0c1d5df8ec8bc093da314f66d76c7ce578359d29d29e0a0399feb9f5df1b9f2b016f040797ed29402094498f8097aaba0b01a8c8301f0fcb877b2b0686e1b29cb1814bb06f9c024857dbd543958aada9a2ce6f9f53b9a8be0c12ab0c360a3eefc08092e85d9d232e3a50ca8cbe49c3430f3960ff7d956d0025e582a2cc57d301888310e8e3383b394a5cf0599101e":0

RSA Generate Key

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

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depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C

RSA Generate Key (Exponent too small)
depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C
rsa_gen_key:128:2:POLARSSL_ERR_RSA_BAD_INPUT_DATA

RSA Generate Key
depends_on:POLARSSL_ENTROPY_C:POLARSSL_CTR_DRBG_C
rsa_gen_key:1024:3:0

RSA PKCS1 Encrypt Bad RNG
rса_pkcs1_encrypt_bad_rng:"4E636AF98E40F3ADCFCBB698F4E80B9F":RSA_PKCS_V15:2048:16:"b38ac65c814117f5c96e14470e851936a67bf94c6e821a39ac12c05f7c0b06d9edda2224703b02e25f31452f9e4a8417b62675fdce6df46b94813bc7b9769a892e482b830bfe0a4d2e46668ace68903617fa6681f4abaf1cc8e4b0420d3c7f61dc45434c6b542c3ee0fc07908509d79c982e673bf8363255adb0add2401039a7bcd1b4ecf0fbeb6ece8369d2da486ee59559dd1d54c9b24190965ea9f9dab203b352557652611cd0909aacf93c3b88b8428cbb448de4e715d1b813dc94829c229543d391ce0a
dab5351f97a3810cf1f73db1458b997daed4209ce50e16d044d2d5bfa8c23893d755222793146d0a78c3d64f355491414865b09617a7bc4a120343:16:":"a42eda41e56235e666e7faaa77100197f657288a1bf183e4820f0c37ce2c456b960278d6003e0b10b24d2be4a96f98e8f9231e1f92414f00ed09844994e86ee32db7de3be7f0c3dbf6ae55baeb2712fa609f5fc3207a824eb3dace31849cd6aa60843185239121bcb84cf2e3c6d61685131d69b5454ec827d2b0dfdd5568b7dcecf5a11d616583feda689d3678c9e9e1d95dcd22408959470b0c173097cde68546860bd254801769f54be96e16362ddcbf34d456035028890199e0f48d3b6e1481e028af43a404fe284ec2b4614b63367d4087e4505611d23142d49f06f0eaa831d5372347b13610b413c4efc43a6de9f0b08d2a951dc503b6":POLARSSL_ERR_RSA_RNG_FAILED

RSA Selftest
depends_on:POLARSSL_SELF_TEST
rsa_selftest:
set(libs
   polarssl
   )

if(USE_PKCS11_HELPER_LIBRARY)
   set(libs $[libs] pks11-helper)
eendif(USE_PKCS11_HELPER_LIBRARY)

if(ENABLE_ZLIB_SUPPORT)
   set(libs $[libs] $[ZLIB_LIBRARIES])
eendif(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:
00:b9:3c:4a:c5:8a:3:8e: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:a2:09:ed:00:33:8f:0b:ee:10:ef:
97:17:0b:13:0a:a7:6b:4a:8b:ce: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: sha1WithRSAEncryption
6c:0e:60:4f:ef:0e:55:f3:4b:bf:d0:40:e7:91:2ca7:94:8f:
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)
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-----BEGIN CERTIFICATE REQUEST-----
MIICgTCCAWkCAQAwPDELmakGA1UEBhMCTkw2ETAPBgNVBAoTCFBvbGFlYyU1MMRow
GDAYVQDExFQb2xhJntTTCBTZl2gMCWCAStwDQYJKoZIhvcNAQEBBQADggEP
ADCCAQoCgggEBAKkKCHz1AarVU4v9Nu6CZS4VV6V7j0RZD7ogWUtPQ1BHLhJZ
Zldr/SvgRvIzrt3PkuGWR+1moG+JKXIIFgNCDatVBQ3dfOXwJBEcFsEc5cOzj7BUZ
HgzaCEIBBUKupUzDnpdbh9NEFFAZ3MTrD0D4bYE1XwxqU8YWhfU5pPla7+nSnqYF
W+cT1/4W15LZ1CQG1QkliUXH3aYaz8JGb6iZSx65Wb3P5BXhem2mxbacwCuhQs
FiSeStzN0pDSZ3PLaAjiX70MtScotcMqJcwLqPcG6eZr1YieJTWZsWpJp4og/
DlJQZ093f6J2YE+0p26twEtxyamsQx1KCtVLECAwEAAaAAAAMCSqGSI1DQEBDQUA
A4IBAQBH78JrlboWU0iUzEwuxYkaRBr22DfdSHINVjnenrTsSsdPfnrUbs42
NfzhJtvLbDMSn0sIsyPNKZnR0mjl/4Da5ScVBfdA7oSiWlWsaL0krAju8IJOSy7
ypqNeQJDgiL00HkaYqinW6Y6enAkaK6sauQ4W0pKmdtZyg0nBh1lV172PcPR
Fu2wxSkvVYj+BcHVAY/GWRMTHw1mkmQn7aAsZ1MF3yicW5Fomd60wpB6cJ3M
vNfTBC7Z1R1BCQbybU96aexsJURJn5x09Y190SbTb7Xm5kC6DpQXwFfEgdVtr
hSQtq5pVnLe4QihmVAlM8zt2ON
-----END CERTIFICATE REQUEST-----

X509 Certificate information #1
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_cert_info: "data_files/server1.crt": "cert. version \ 3
serial number \ 01
issuer name   \ C=NL, O=PolarSSL,
CN=PolarSSL Test CA\subject name  \ C=NL, O=PolarSSL, CN=PolarSSL Server \issued  on    \ 2011-02-12
14:44:06
expires on    \ 2021-02-12 14:44:06
signed using  \ RSA+SHA1
RSA 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
signed using  \ RSA+SHA1
RSA 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=localhost \issued  on    \ 2011-02-12
14:44:06
expires on    \ 2021-02-12 14:44:06
signed using  \ RSA+SHA1\RSA 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
signed using  \ RSA+MD2\RSA 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    \ 2008-07-12 10:56:59
expires on    \ 2010-07-12 10:56:59
signed using  \ RSA+MD4\RSA 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 \ 03
issuer name   \ C=NL,
O=PolarSSL,
CN=PolarSSL Test CA\subject name  \ C=NL, O=PolarSSL,
CN=PolarSSL Cert MD5\issued  on    \ 2008-07-12 10:56:59
expires on    \ 2010-07-12 10:56:59
signed using  \ RSA+MD5\RSA 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
signed using \: RSA+MD5
RSA 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
signed using \: RSA+SHA1
RSA 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
signed using \: RSA+SHA224
RSA 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
serial number \: 09
issuer name \: C=NL,
O=PolarSSL, CN=PolarSSL Test CA
subject name \: C=NL, O=PolarSSL, CN=PolarSSL Cert SHA256
issued on \: 2011-02-12 14:44:07
expires on \: 2021-02-12 14:44:07
signed using \: RSA+SHA256
RSA 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
serial number \: 0A
issuer name \: C=NL,
O=PolarSSL, CN=PolarSSL Test CA
subject name \: C=NL, O=PolarSSL, CN=PolarSSL Cert SHA384
issued on \: 2011-02-12 14:44:07
expires on \: 2021-02-12 14:44:07
signed using \: RSA+SHA384
RSA 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
serial number \: 0B
issuer name \: C=NL,
O=PolarSSL, CN=PolarSSL Test CA
subject name \: C=NL, O=PolarSSL, CN=PolarSSL Cert SHA512
issued on \: 2011-02-12 14:44:07
expires on \: 2021-02-12 14:44:07
signed using \: RSA+SHA512
RSA 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
issuer 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\nsignature: 03 revocation date: 2011-02-12 14:44:07\nsigned using \: RSA+SHA1\n
X509 CRL Information MD2 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_md2.pem":"CRL version   \: 1\nnissuer name   \: C=NL, O=PolarSSL, CN=PolarSSL\nTest 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\nsigned using \: RSA+MD2\n
X509 CRL Information MD4 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_md4.pem":"CRL version   \: 1\nnissuer name   \: C=NL, O=PolarSSL, CN=PolarSSL\nTest 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\nsigned using \: RSA+MD4\n
X509 CRL Information MD5 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_md5.pem":"CRL version   \: 1\nnissuer name   \: C=NL, O=PolarSSL, CN=PolarSSL\nTest 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\nsigned using \: RSA+MD5\n
X509 CRL Information SHA1 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_sha1.pem":"CRL version   \: 1\nnissuer name   \: C=NL, O=PolarSSL, CN=PolarSSL\nTest 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\nsigned using \: RSA+SHA1\n
X509 CRL Information SHA224 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_sha224.pem":"CRL version   \: 1\nnissuer name   \: C=NL, O=PolarSSL, CN=PolarSSL\nTest 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\nsigned using \: RSA+SHA224\n
X509 CRL Information SHA256 Digest
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_crl_info:"data_files/crl_sha256.pem":"CRL version   \: 1\nnissuer name   \: C=NL, O=PolarSSL, CN=PolarSSL\nTest 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\nsigned using \: RSA+SHA256\n
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
this update: 2011-02-12 14:44:07
next update: 2011-04-13 14:44:07
Revoked certificates:
serial number: 01
revocation date: 2011-02-12 14:44:07
serial number: 03
revocation date: 2011-02-12 14:44:07
unsigned using RSA+SHA384n"

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
this update: 2011-02-12 14:44:07
next update: 2011-04-13 14:44:07
Revoked certificates:
serial number: 01
revocation date: 2011-02-12 14:44:07
serial number: 03
revocation date: 2011-02-12 14:44:07
signed using RSA+SHA512n"

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-ca.key":"PolarSSLWRONG":POLARSSL_ERR_X509_PASSWORD_MISMATCH

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_DES_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_DES_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS12_C
x509parse_keyfile:"data_files/pkcs8_pbe_sha1_3des.key":"PolarSSLTes":POLARSSL_ERR_X509_PASSWORD_MISMATCH

X509 Parse Key #10.2 (PKCS#8 encrypted SHA1-3DES, no PW)
depends_on:POLARSSL_DES_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-DES DER)
depends_on:POLARSSL_DES_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_DES_C:POLARSSL_SHA1_C:POLARSSL_PEM_C:POLARSSL_FS_IO:POLARSSL_PKCS12_C
x509parse_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
x509parse_keyfile:"data_files/pkcs8_pbe_sha1_2des.key":"PolarSSLTe":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
x509parse_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
x509parse_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
x509parse_keyfile:"data_files/pkcs8_pbe_sha1_rc4_128.key":"PolarSSLTe":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":"PolarSSLTes":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
x509_parse_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
x509_parse_keyfile:"data_files/pkcs8_pbes2_pbkdf2_3des.der":"PolarSSLTes":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
x509_parse_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
x509_parse_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
x509_parse_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:NULL

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:NULL
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:NULL

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:NULL

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:NULL

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:NULL

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 wildcard certificate)
depends_on:POLARSSL_PEM_C:POLARSSL_FS_IO
x509_verify:":data_files/cert_example_wildcard.crt":"data_files/test-
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": "www.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-ca.crt": "data_files/crl.pem": "example.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": "example.org": 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": "mail.example.org": 0: 0: 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_noenc.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)
x509_parse_crt:"";"";PolarSSL_ERR_X509_CERT_INVALID_FORMAT

X509 Certificate ASN1 (Correct first tag, data length does not match)
x509_parse_crt:"300000";"";PolarSSL_ERR_X509_CERT_INVALID_FORMAT + PolarSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (Correct first tag, no more data)
x509_parse_crt:"3000";"";PolarSSL_ERR_X509_CERT_INVALID_FORMAT + PolarSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (Correct first tag, length data incorrect)
x509_parse_crt:"30023085";"";PolarSSL_ERR_X509_CERT_INVALID_FORMAT + PolarSSL_ERR_ASN1_INVALID_LENGTH

X509 Certificate ASN1 (Correct first tag, length data incomplete)
x509_parse_crt:"30023083";"";PolarSSL_ERR_X509_CERT_INVALID_FORMAT + PolarSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (Correct first tag, length data incomplete)
x509_parse_crt:"30023081";"";PolarSSL_ERR_X509_CERT_INVALID_FORMAT + PolarSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (Correct first tag, second tag no TBSCertificate)
x509_parse_crt:"300100";"";PolarSSL_ERR_X509_CERT_INVALID_FORMAT + PolarSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, no version tag, serial missing)
x509_parse_crt:"3003300100";"";PolarSSL_ERR_X509_CERT_INVALID_SERIAL + PolarSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, invalid version tag)
x509_parse_crt:"300530030a0010";"";PolarSSL_ERR_X509_CERT_INVALID_VERSION + PolarSSL_ERR_ASN1_UNEXPECTED_TAG

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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:"30163014a0120210000000000000000000000000000000000000000":"":POLARSSL_ERR_X509_CERT_INVALID_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:"300d300ba003020104deadbeef":"":POLARSSL_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, correct serial, no alg oid)
x509parse_crt:"300e300ca003020104deadbeef00":"":POLARSSL_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, alg oid no data in sequence)
x509parse_crt:"300f300da0030201048204deadbeef3000":"":POLARSSL_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, alg with params)
x509parse_crt:"30163014a0030201048204deadbeef30070604cafed00d01":"":POLARSSL_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, correct alg data, no params unknown version)
x509parse_crt:"30153013a0030201048204deadbeef30060604cafed00d":"":POLARSSL_ERR_X509_CERT_UNKNOWN_VERSION

X509 Certificate ASN1 (TBSCertificate, correct alg data, unknown version)
x509parse_crt:"30173015a0030201048204deadbeef30080604cafed00d0500":"":POLARSSL_ERR_X509_CERT_UNKNOWN_VERSION
X509 Certificate ASN1 (TBSCertificate, correct alg data, length mismatch)
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:"30173015a0030201028204deadbeef30080604cafed00d0500":"":POLARSSL_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_INVALID_ALG

X509 Certificate ASN1 (TBSCertificate, correct alg, specific alg_id)
x509parse_crt:"301c301aa0030201028204deadbeef300d06092a864886f70d0101010500":"":POLARSSL_ERR_X509_CERT_UNKNOWN_SIG_ALG

X509 Certificate ASN1 (TBSCertificate, issuer no set data)
x509parse_crt:"30223022a0030201028204deadbeef300d06092a864886f70d010102050030023100":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer two inner set datas)
x509parse_crt:"302a3028a0030201028204deadbeef300d06092a864886f70d01010205003006300454657374":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, issuer no oid data)
x509parse_crt:"30243022a0030201028204deadbeef300d06092a864886f70d01010205003006300454657374":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer invalid tag)
x509parse_crt:"302a3028a0030201028204deadbeef300d06092a864886f70d01010205003006300454657374":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, issuer, no string data)
x509parse_crt:"30253023a0030201028204deadbeef300d06092a864886f70d01010205003007305300300600130454":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer, no full following string)
x509parse_crt:"302b3029a0030201028204deadbeef300d06092a864886f70d0101020500300d310b30090600130454":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer two inner set datas)
x509parse_crt:"30223022a0030201028204deadbeef300d06092a864886f70d010102050030023100":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer no inner seq data)
x509parse_crt:"30233023a0030201028204deadbeef300d06092a864886f70d0101010500":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer no inner set data)
x509parse_crt:"30243022a0030201028204deadbeef300d06092a864886f70d010102050030030431023000":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer no inner set data)
x509parse_crt:"30243022a0030201028204deadbeef300d06092a864886f70d010102050030030431023000":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, issuer two inner set datas)
x509parse_crt:"30223022a0030201028204deadbeef300d06092a864886f70d0101020500300431023000":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, issuer no oid data)
x509parse_crt:"30243022a0030201028204deadbeef300d06092a864886f70d01010205003006300454657374":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer, no string data)
x509parse_crt:"30253023a0030201028204deadbeef300d06092a864886f70d01010205003007305300300600130454":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, issuer, no full following string)
x509parse_crt:"302b3029a0030201028204deadbeef300d06092a864886f70d0101020500300d310b30090600130454":"":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_OUT_OF_DATA
65737400":":POLARSSL_ERR_X509_CERT_INVALID_NAME + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 Certificate ASN1 (TBSCertificate, valid issuer, no validity)
x509parse_crt:"302a3028a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, too much date data)
x509parse_crt:"30493047a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, invalid from date)
x509parse_crt:"30483046a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, invalid to date)
x509parse_crt:"30673065a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, valid validity, no subject)
x509parse_crt:"30673065a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, valid subject, no pubkeyinfo)
x509parse_crt:"30563054a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, valid subject, no alg)
x509parse_crt:"30583056a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, valid subject, unknown pk alg)
x509parse_crt:"30673065a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, pubkey, no alg)
x509parse_crt:"30673065a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, pubkey, no bitstring)
x509parse_crt:"30673065a0030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374":":POLARSSL_ERR_X509_CERT_INVALID_DATE + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

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X509 Certificate ASN1 (TBSCertificate, pubkey, no bitstring data)
x509parse_crt: "30693067a0a030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130313030303030170c303931323331323335393539300c310a30080600130454657374 3011300d06092a864886f70d0101010500030100": ":POLARSSL_ERR_X509_CERT_INVALID_PUBKEY + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate, pubkey, invalid bitstring start)
x509parse_crt: "306a3068a0a030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130313030303030170c303931323331323335393539300c310a30080600130454657374 3012300d06092a864886f70d0101010500030101": ":POLARSSL_ERR_X509_CERT_INVALID_PUBKEY

X509 Certificate ASN1 (TBSCertificate, pubkey, invalid internal bitstring length)
x509parse_crt: "306d306ba0a030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130313030303030170c303931323331323335393539300c310a30080600130454657374 3015300d06092a864886f70d0101010500030400300000": ":POLARSSL_ERR_X509_CERT_INVALID_PUBKEY + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, pubkey, invalid internal bitstring tag)
x509parse_crt: "306d306ba0a030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130313030303030170c303931323331323335393539300c310a30080600130454657374 3015300d06092a864886f70d0101010500030400300000": ":POLARSSL_ERR_X509_CERT_INVALID_PUBKEY + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, pubkey, invalid mpi)
x509parse_crt: "30743072a0a030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130313030303030170c303931323331323335393539300c310a30080600130454657374 301c30d06092a864886f70d0101010500030b0030080202fff0302fff": ":POLARSSL_ERR_RSA_KEY_CHECK_FAILED

X509 Certificate ASN1 (TBSCertificate, pubkey, total length mismatch)
x509parse_crt: "30753073a0a030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130313030303030170c303931323331323335393539300c310a30080600130454657374 301d30d06092a864886f70d0101010500030b0030080202fff0202fff": ":POLARSSL_ERR_X509_CERT_INVALID_PUBKEY + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate, pubkey, check failed)
x509parse_crt: "30743072a0a030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130313030303030170c303931323331323335393539300c310a30080600130454657374 301d300d06092a864886f70d0101010500030b0030080202fff0202fff": ":POLARSSL_ERR_RSA_KEY_CHECK_FAILED

X509 Certificate ASN1 (TBSCertificate, pubkey, check failed, expanded length notation)
x509parse_crt: "308183308180a0a030201028204deadbeef300d06092a864886f70d0101020500300c310a30080600130454 657374301c170c3039303130313030303030170c303931323331323335393539300c310a30080600130454657374 301d300d06092a864886f70d0101010500030b0030080202fff0202fff": ":POLARSSL_ERR_RSA_KEY_CHECK_FAILED

X509 Certificate ASN1 (TBSCertificate v3, Optional UIDs, Extensions not present)
x509parse_crt:"301813308180a0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013 0454657374301c170c3039303130313030303030303030170c30393132333132333539393900c310a300806001304546 7374302a300d06092a864886f70d01010205000319003016201ffffffffffffffffffffffff202ff":""::POLARSSL_L_ERR_X509_CERT_INVALID_ALG + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate v3, issuerID wrong tag)
x509parse_crt:"301818430818a0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013 0454657374301c170c3039303130313030303030303030170c30393132333132333539393900c310a300806001304546 7374302a300d06092a864886f70d01010105000319003016201ffffffffffffffffffffffff0202ffff":"":POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate v3, UIDs, no ext)
x509parse_crt:"301819308186a0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013 0454657374301c170c3039303130313030303030303030170c30393132333132333539393900c310a300806001304546 7374302a300d06092a864886f70d01010105000319003016201ffffffffffffffffffffffff0202ffffa101aaa201bb":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIONS + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate v3, UIDs, invalid length)
x509parse_crt:"301819308186a0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013 0454657374301c170c3039303130313030303030303030170c30393132333132333539393900c310a300806001304546 7374302a300d06092a864886f70d01010105000319003016201ffffffffffffffffffffffff0202ffffa185aaa201bb":"":POLARSSL_ERR_ASN1_INVALID_LENGTH

X509 Certificate ASN1 (TBSCertificate v3, ext empty)
x509parse_crt:"301818b308188a0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013 0454657374301c170c3039303130313030303030303030170c30393132333132333539393900c310a300806001304546 7374302a300d06092a864886f70d01010105000319003016201ffffffffffffffffffffffff0202ffffa101aaa201bb300":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIONS + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate v3, ext length mismatch)
x509parse_crt:"30181e30818ba0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013 0454657374301c170c3039303130313030303030303030170c30393132333132333539393900c310a300806001304546 7374302a300d06092a864886f70d01010105000319003016201ffffffffffffffffffffffff0202ffffa101aaa201bb30330000":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIONS + POLARSSL_ERR_ASN1_OUT_OF_DATA

X509 Certificate ASN1 (TBSCertificate v3, first ext invalid)
x509parse_crt:"301818f30818ca0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013 0454657374301c170c3039303130313030303030303030170c30393132333132333539393900c310a300806001304546 7374302a300d06092a864886f70d01010105000319003016201ffffffffffffffffffffffff0202ffffa101aaa201bb3033002300":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIONS + POLARSSL_ERR_ASN1_LENGTH_MISMATCH

X509 Certificate ASN1 (TBSCertificate v3, first ext invalid)
x509parse_crt:"301819030818da0030201028204deadbeef300d06092a864886f70d0101020500300c310a3008060013 0454657374301c170c3039303130313030303030303030170c30393132333132333539393900c310a300806001304546 7374302a300d06092a864886f70d01010105000319003016201ffffffffffffffffffffffff0202ffffa101aaa201bb3033002300":"":POLARSSL_ERR_X509_CERT_INVALID_EXTENSIONS + POLARSSL_ERR_ASN1_OUT_OF_DATA
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
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

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X509 Certificate ASN1 (signature, invalid sig data)
X509 Certificate ASN1 (signature, data left)
X509 Certificate ASN1 (correct)
X509 Certificate ASN1 (GeneralizedTime instead of UTCTime)
X509 Certificate ASN1 (Name with X520 CN)
X509 Certificate ASN1 (sig_alg mismatch)
X509 Certificate ASN1 (sig_alg, no sig)
X509 Certificate ASN1 (sig_alg mismatch)
X509 Certificate ASN1 (sig_alg mismatch)
X509 Certificate ASN1 (GeneralizedTime instead of UTCTime)
X509 Certificate ASN1 (Name with X520 CN)
X509 Certificate ASN1 (With Name)
X509 Certificate ASN1 (Correct)
X509 Certificate ASN1 (GeneralizedTime instead of UTCTime)
X509 Certificate ASN1 (Name with X520 CN)
X509 Certificate ASN1 (Name with PKCS9 email)
x509Parse_crt:"3019f308189a0030201008204deadbeef300d06092a864886f70d010102050030153113301106092a
864886f70d010901130454657374301c170c3039303130313030303030303030170c303931323331323335393539300c31
0a30080601304567373402a300d06092a864886f70d010101050003190030160210ffffffffffffffffffffffffffffffff0
202ffff300d06092a864886f70d0101020500030200ff":"cert. version \: 1
serial number \: DE=AD=BE=EF
issuer name \: emailAddress=Test
subject name \: ??=Test
issued on \: 2009-01-01 00:00:00
expires on \: 2009-12-31 23:59:59
unsigned using \: RSA+MD2
RSA key size \: 128 bits\n":0

X509 Certificate ASN1 (Name with unknown PKCS9 part)
x509Parse_crt:"3019f308189a0030201008204deadbeef300d06092a864886f70d010102050030153113301106092a
864886f70d0109ab130454657374301c170c3039303130313030303030303030170c303931323331323335393539300c31
0a30080601304567373402a300d06092a864886f70d010101050003190030160210ffffffffffffffffffffffffffffffff0
202ffff300d06092a864886f70d0101020500030200ff":"cert. version \: 1
serial number \: DE=AD=BE=EF
issuer name \: 0xAB=Test
subject name \: ??=Test
issued on \: 2009-01-01 00:00:00
expires on \: 2009-12-31 23:59:59
unsigned using \: RSA+MD2
RSA key size \: 128 bits\n":0

X509 CRL ASN1 (Name with PKCS9 email)
x509Parse_crl:"3000":"POLARSSL_ERR_X509_CERT_INVALD_FORMAT
X509 CRL ASN1 (Correct first tag, data length does not match)
x509Parse_crl:"3000":"POLARSSL_ERR_X509_CERT_INVALD_FORMAT + POLARSSL_ERR_X509_CERT_INVALD_LENGTH_MISMATCH
X509 CRL ASN1 (TBSCertList, tag missing)
x509Parse_crl:"3000":"POLARSSL_ERR_X509_CERT_INVALD_FORMAT + POLARSSL_ERR_X509_CERT_INVALD_OUT_OF_DATA
X509 CRL ASN1 (TBSCertList, version tag len missing)
x509Parse_crl:"3000":"POLARSSL_ERR_X509_CERT_INVALD_FORMAT + POLARSSL_ERR_X509_CERT_INVALD_VERSION + POLARSSL_ERR_X509_CERT_INVALD_OUT_OF_DATA
X509 CRL ASN1 (TBSCertList, version correct, alg missing)
x509Parse_crl:"3000":"POLARSSL_ERR_X509_CERT_INVALD_FORMAT + POLARSSL_ERR_X509_CERT_INVALD_ALG + POLARSSL_ERR_X509_CERT_INVALD_OUT_OF_DATA
X509 CRL ASN1 (TBSCertList, alg correct, incorrect version)
x509Parse_crl:"3003":"POLARSSL_ERR_X509_CERT_UNKNOWN_VERSION
X509 CRL ASN1 (TBSCertList, correct version, sig_0id1 unknown)
x509Parse_crl:"3003":"POLARSSL_ERR_X509_CERT_UNKNOWN_SIG_ALG
X509 CRL ASN1 (TBSCertList, sig_0id1 id unknown)
x509Parse_crl:"3003":"POLARSSL_ERR_X509_CERT_UNKN
OWN_SIG_ALG

X509 CRL ASN1 (TBSCertList, sig_oid1 correct, issuer missing)
X509parse_crl:"30143012020100300d06092a864886f70d01010e0500300f310d300b06035504031304412424344":"':POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 CRL ASN1 (TBSCertList, issuer set missing)
X509parse_crl:"30163014020100300d06092a864886f70d01010e0500300f310d300b06035504031304412424344":"':POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 CRL ASN1 (TBSCertList, correct issuer, thisUpdate missing)
X509parse_crl:"30253023020100300d06092a864886f70d01010e0500300f310d300b06035504031304412424344":"':POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 CRL ASN1 (TBSCertList, entries present, invalid sig_alg)
X509parse_crl:"304a3047020100300d06092a864886f70d01010e0500300f310d300b06035504031304412424344":"':POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 CRL ASN1 (TBSCertList, entries present, date in entry invalid)
X509parse_crl:"304a3047020100300d06092a864886f70d01010e0500300f310d300b06035504031304412424344":"':POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 CRL ASN1 (TBSCertList, sig_alg present, sig_alg does not match)
X509parse_crl:"30583047020100300d06092a864886f70d01010e0500300f310d300b06035504031304412424344":"':POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 CRL ASN1 (TBSCertList, sig present, len mismatch)
X509parse_crl:"305d3047020100300d06092a864886f70d01010e0500300f310d300b06035504031304412424344":"':POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 CRL ASN1 (TBSCertList, sig present)
X509parse_crl:"305c3047020100300d06092a864886f70d01010e0500300f310d300b06035504031304412424344":"':POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_UNEXPECTED_TAG

X509 CRL ASN1 (TBSCertList, no entries)
X509parse_crl:"30463031020100300d06092a864886f70d01010e0500300f310d300b06035504031304412424344":"':POLARSSL_ERR_X509_CERT_INVALID_FORMAT + POLARSSL_ERR_ASN1_UNEXPECTED_TAG
X509 Key ASN1 (Incorrect first tag)
x509parse_key:"":"":POLARSSL_ERR_X509_KEY_INVALID_FORMAT

X509 Key ASN1 (RSAPrivateKey, incorrect version tag)
x509parse_key:"300100":":POLARSSL_ERR_X509_KEY_INVALID_FORMAT

X509 Key ASN1 (RSAPrivateKey, version tag missing)
x509parse_key:"3000":":POLARSSL_ERR_X509_KEY_INVALID_FORMAT

X509 Key ASN1 (RSAPrivateKey, invalid version)
x509parse_key:"3003020101":":POLARSSL_ERR_X509_KEY_INVALID_FORMAT

X509 Key ASN1 (RSAPrivateKey, correct version, incorrect tag)
x509parse_key:"300402010000":":POLARSSL_ERR_X509_KEY_INVALID_FORMAT

X509 Key ASN1 (RSAPrivateKey, values present, length mismatch)
x509parse_key:"301c020100002010102010201010201002010201020010201020010201020100":":POLARSSL_ERR_ X509_KEY_INVALID_FORMAT

X509 Key ASN1 (RSAPrivateKey, values present, check_privkey fails)
x509parse_key:"301c0201000020101020102010102010201010201020010201020010201020100":":POLARSSL_ERR_X5 09_KEY_INVALID_FORMAT

-----BEGIN RSA PRIVATE KEY-----
MIIEpQIBAAKCAQEAuTxKxcijjpAXpJ5SqnF1JmGA58e1bYz/qrZBjre+Ea1ccxYM
ZBFIBP/W4TsF24m7s5cJ1Ruw3WiHObA9ccvidtAa2BgBgBtU9uVEmvHLrzE2u30kN
nQm37bH9PP08+iTPXb985FmJbXqRCLpJtPq1JS65mFnu4H7wzDL6Jf7AzjwvO
E99mpMY12hHuwj/XStv0VpIeHlfG7j61sz0vp5HHLYrWuvf2sW4Wvf7tF4V6Vu
7HU9bd736vSOIqRmH2FwSTCqdrSoBvR2d7OvhBNX3B37gdv3sBpWWi4B4t6Zc
zDBa+M1vZfEZXYi9KAcMh1fog9d39abJqAAH0X9wIAQAAABC0v5n2zDvTnzRG
X2j6FSmegq5j6gTrduSXNLNT3d1Eh0GXyIImGMail5EGIol7BY5kAVZKTXGR
4urT02M7CXKQOKKH7e+E4ZhSAb0BQ7yi1vVDv9bQ2vYJDlorHjxUUCjLXn4dntVQ
SdzFO+pcfswAkJaTI3kgPd/qisvnXfwnPkb9NZeHSFUW1nfaQaza8y+h0
g+gNerzweix+IlPki77WtficQdOlhuD4+f7uQmCiUpNfgojRc+CxVGrwe0BO1b0
74hNxsuP9j9ianEGStszWWV2g4h83laATA2RvnGKsiZ0BisLw5KRmHkf0RPs+eZOB
GMv/ruEcgYEA9K00uYKDNSQbDImTaEo9mpkPDr2uB+0xNf+8TNKh5LIDsnJUW
LgZegCl6xGyLykYnStxG5fJNADSk5u9d0GqA1mpQ6J7KApzZIldvF/NhH0MAK
OBJj/0o84HCWQ1QMEhfve6UmKmIgG+6ht40LWYdeqlEd2Lw6e6QUHStmMCgYEAcw7c
ZR+S5hYeSnJLxVbHEC4C4z4mRl2wuzgZDQ+6f5gpx5l6mEEcnLzDk7OSK7
XGZODuW17l/CU5a8o6cuhZPM5snSrm1KJ+mE3EqKH+EaaeesEMKxK4ZdvCKsGTe
dg4lVi+V+TvQsCQrSqSjQ3bLaW3f/ryLJeZzpOCyYEAmGL70IlhpBFfIIVWXpoxcn
lksz+w+xYV02ixzPDRROYI5NSqF0bwvExZOUCM0KbQ1KbwqYQCCdc6m7yMCopSDQi
Zxfw3PUL7zeVI5bZf0dIn8Su0lumk5Lh9qdr7TEmyqBXhrFT1S2rGFHnonEP
J5isDroUak9rovTSltKN0E0MCyEAYW0zY0yEelaRk1aA8bgg9T7B9NcWYbctC3nLAI
rdWiKxV0nVeHZQAWHbmrladLqg1bea1Ne67cSRV+V79nSAqlLBvmp0HdR/n5kr
Camellia-192-ECB Encrypt Perl EVP #2
camellia_encrypt_ecb:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B":"AE2D8A571E03AC9C9EB76FAC45AF8E51"":"5713C62C14B2EC0F8393B6AFD6F5785A":0

Camellia-192-ECB Encrypt Perl EVP #3
camellia_encrypt_ecb:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B"":"30C81C46A35CE411E5FBC1191A0A52EF"":"B40ED2B60EB54D09D030CF511FEEF366":0

Camellia-192-ECB Encrypt Perl EVP #4
camellia_encrypt_ecb:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B"":"F69F2445DF4F9B17AD2B417BEE66C3710"":"909DBD95799096748CB27357E73E1D26":0

Camellia-256-ECB Encrypt Perl EVP #1
camellia_encrypt_ecb:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DF4F"":"6BC1BEE22E409F96E93D7E117393172A"":"BEFD219B112FA00098919CD101C9CCFA":0

Camellia-256-ECB Encrypt Perl EVP #2
camellia_encrypt_ecb:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DF4F"":"A2E2D8A571E03AC9C9EB76FAC45AF8E51"":"C91D3A8F1AEA08A9386CF4B66C0169EA":0

Camellia-256-ECB Encrypt Perl EVP #3
camellia_encrypt_ecb:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DF4F"":"30C81C46A35CE411E5FBC1191A0A52EF"":"A623D711DC5F25A51BB8A80D56397D28":0

Camellia-256-ECB Encrypt Perl EVP #4
camellia_encrypt_ecb:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DF4F"":"F69F2445DF4F9B17AD2B417BEE66C3710"":"7960109FB6DC42947FCE59EA3C5EB6B":0

Camellia-128-CBC Encrypt Perl EVP #1
camellia_encrypt_cbc:"2B7E151628AED2A6ABF7158809CF4F3C"":"000102030405060708090A0B0C0D0E0F"":"6BC1BEE22E409F96E93D7E117393172A"":"1607CF494B36BBF00DAE0B503C831AB":0

Camellia-128-CBC Encrypt Perl EVP #2
camellia_encrypt_cbc:"2B7E151628AED2A6ABF7158809CF4F3C"":"1607CF494B36BBF00DAE0B503C831AB"":"AE2D8A571E03AC9C9EB76FAC45AF8E51"":"A2F2CF671629EF7840C5A5DFB5074887":0

Camellia-128-CBC Encrypt Perl EVP #3
camellia_encrypt_cbc:"2B7E151628AED2A6ABF7158809CF4F3C"":"A2F2CF671629EF7840C5A5DFB5074887"":"30C81C46A35CE411E5FBC1191A0A52EF"":"0F06165008CF8B8B5A63586362543E54":0

Camellia-128-CBC Encrypt Perl EVP #4
camellia_encrypt_cbc:"2B7E151628AED2A6ABF7158809CF4F3C"":"36A84CDAFD5F9A85ADA0F0A993D6D577"":"F69F2445DF4F9B17AD2B417BEE66C3710"":"74C64268CDBB8B8FA5B34E8AF3732980":0

Camellia-192-CBC Encrypt Perl EVP #1
camellia_encrypt_cbc:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B"":"000102030405060708090A0B0C0D0E0F"":"6BC1BEE22E409F96E93D7E117393172A"":"2A4830AB5AC4A1A2405955FDB2195CF93":0
Camellia-192-CBC Encrypt Perl EVP #2
camellia_encrypt_cbc:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7"":"2A4830AB5AC4A1A2405955FD2195CF93":"AE2D8A571E0339C9EB76FAC45AF8E51":"5D5A869BD14CE54264F892A6DD2EC3D5":0

Camellia-192-CBC Encrypt Perl EVP #3
camellia_encrypt_cbc:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7"":"5D5A869BD14CE54264F892A6DD2EC3D5":"30C8146A35CE411E5FBC1191A0A52EF":"37D359C3349836D884E310ADD6F68C449":0

Camellia-192-CBC Encrypt Perl EVP #4
camellia_encrypt_cbc:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7"":"37D359C3349836D884E310ADD6F68C449":"F69F2445DF4F9B17AD2B417BE66C3710":"01FAAA930B4AB9916E9668E1428C6B08":0

Camellia-256-CBC Encrypt Perl EVP #1
camellia_encrypt_cbc:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4":"000102030405060708090A0B0C0D0E0F"":"6BC1BEE22E409F96E93D7E117393172A":"E6CFA35FC02B134A4D2C0B6737AC3EDA":0

Camellia-256-CBC Encrypt Perl EVP #2
camellia_encrypt_cbc:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4":"E6CFA35FC02B134A4D2C0B6737AC3EDA":"AE2D8A571E0339C9EB76FAC45AF8E51":"36CBEBE73BD504B4070B1B7DE2B21EB50":0

Camellia-256-CBC Encrypt Perl EVP #3
camellia_encrypt_cbc:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4":"36CBEBE73BD504B4070B1B7DE2B21EB50":"30C8146A35CE411E5FBC1191A0A52EF":"E31A6055297D96CA3330CDF1B1860A83":0

Camellia-256-CBC Encrypt Perl EVP #4
camellia_encrypt_cbc:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4":"E31A6055297D96CA3330CDF1B1860A83":"F69F2445DF4F9B17AD2B417BE66C3710":"5D563F6D1CCCF236051C0C5C1C58F28F":0

Camellia-128-CFB128 Encrypt Perl EVP #1
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"2B7E151628AED2A6ABF7158809CF4F3C":"000102030405060708090A0B0C0D0E0F":"6BC1BEE22E409F96E93D7E117393172A":"14F7646187817EB586599146B82BD719"

Camellia-128-CFB128 Encrypt Perl EVP #2
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"2B7E151628AED2A6ABF7158809CF4F3C":"14F7646187817EB586599146B82BD719":"AE2D8A571E0339C9EB76FAC45AF8E51":"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": "6BC1BEE22E409F9E93D7E117393172A": "14F7646187817EB586599146B82BD719"

Camellia-128-CFB128 Decrypt Perl EVP #2
depends_on: POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128: "2B7E151628AED2A6ABF7158809CF4F3C": "A53D28BB82DF741103EA4F921A44880B": "30C81C46A35CE411E5FBC1191A0A52EF": "9C2157A664626D1DEF9EA420FDE69B96"

Camellia-128-CFB128 Decrypt Perl EVP #3
depends_on: POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128: "2B7E151628AED2A6ABF7158809CF4F3C": "9C2157A664626D1DEF9EA420FDE69B96": "F69F2445DF4F9B17AD2B417BE66C3710": "742A25F0542340C7BAEF24CA8482BB09"

Camellia-128-CFB128 Decrypt Perl EVP #4
depends_on: POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128: "2B7E151628AED2A6ABF7158809CF4F3C": "A53D28BB82DF741103EA4F921A44880B": "30C81C46A35CE411E5FBC1191A0A52EF": "9C2157A664626D1DEF9EA420FDE69B96"

Camellia-192-CFB128 Encrypt Perl EVP #1
depends_on: POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128: "8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B": "000102030405060708090A0B0C0D0E0F": "6BC1BEE22E409F9E93D7E117393172A": "C832BB9780677DA82D9B6860DC565E"

Camellia-192-CFB128 Encrypt Perl EVP #2
depends_on: POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128: "8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C6B7B": "C832BB9780677DA82D9B6860DC565E": "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-192-CFB128 Decrypt Perl EVP #1
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C67B":"000102030405060708090A0B0C0D0E0F":"6BC1BEE22E409F96E93D7E117393172A":"C832BB9780677DA829B6860DCCD565E"

Camellia-192-CFB128 Decrypt Perl EVP #2
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C67B":"86F8491627906D780C7A6D46EA331F98":"30C81C46A35CE411E5FBC1191A0A52EF":"69511CCE594CF710CB98BB637221F01"

Camellia-192-CFB128 Decrypt Perl EVP #3
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C67B":"86F8491627906D780C7A6D46EA331F98":"30C81C46A35CE411E5FBC1191A0A52EF":"69511CCE594CF710CB98BB637221F01"

Camellia-192-CFB128 Decrypt Perl EVP #4
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"8E73B0F7DA0E6452C810F32B809079E562F8EAD2522C67B":"86F8491627906D780C7A6D46EA331F98":"30C81C46A35CE411E5FBC1191A0A52EF":"69511CCE594CF710CB98BB637221F01"

Camellia-256-CFB128 Encrypt Perl EVP #1
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"603DEB1015CA71BE2B73A0030516857D77811F352C073B6108D72D9810A30914DFF4":"000102030405060708090A0B0C0D0E0F":"6BC1BEE22E409F96E93D7E117393172A":"CF6107BB0CEA7D7FB1BD31F5E7B06C93"

Camellia-256-CFB128 Encrypt Perl EVP #2
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"603DEB1015CA71BE2B73A0030516857D77811F352C073B6108D72D9810A30914DFF4":"CF6107BB0CEA7D7FB1BD31F5E7B06C93":"AE2D8A571E03AC9CE76FAC45AF8E51":"89BEDB4CCDD864EA11BA4CBE849B5E2B"

Camellia-256-CFB128 Encrypt Perl EVP #3
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"603DEB1015CA71BE2B73A0030516857D77811F352C073B6108D72D9810A30914DFF4":"CF6107BB0CEA7D7FB1BD31F5E7B06C93":"AE2D8A571E03AC9CE76FAC45AF8E51":"89BEDB4CCDD864EA11BA4CBE849B5E2B":"30C81C46A35CE411E5FBC1191A0A52EF":"555FC3F34BDD2D54C62D9E3BF338C1C4"

Camellia-256-CFB128 Encrypt Perl EVP #4
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_encrypt_cfb128:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4":"555FC3F34BDD2D54C62D9E3BF338C1C4":"F69F2445DF4F9B17AD2B417BE66C3710":"5953ADCE14DB8C7F39F1BD39F359BFFA"

Camellia-256-CFB128 Decrypt Perl EVP #1
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4":"000102030405060708090A0B0C0D0E0F":"6BC1BEEE22E409F96E93D7E117393172A":"CF6107BB0CEA7D7FB1BD31F5E7B06C93"

Camellia-256-CFB128 Decrypt Perl EVP #2
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4":"CF6107BB0CEA7D7FB1BD31F5E7B06C93":"AE2D8A571E03AC9C9EB76FAC45AF8E51":"89BEDB4CCDD864EA11BA4CBE849B5E2B"

Camellia-256-CFB128 Decrypt Perl EVP #3
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4":"89BEDB4CCD864EA11BA4CBE849B5E2B":"30C81C46A35CE411E5FBC1191A0A52EF":"555FC3F34BDD2D54C62D9E3BF338C1C4"

Camellia-256-CFB128 Decrypt Perl EVP #4
depends_on:POLARSSL_CIPHER_MODE_CFB
camellia_decrypt_cfb128:"603DEB1015CA71BE2B73AEF0857D77811F352C073B6108D72D9810A30914DFF4":"555FC3F34BDD2D54C62D9E3BF338C1C4":"F69F2445DF4F9B17AD2B417BE66C3710":"5953ADCE14DB8C7F39F1BD39F359BFFA"

Camellia-ECB Encrypt (Invalid key length)
camellia_encrypt_ecb:"0123456789abcdefdefedcba98765432":"0123456789abcdefdefedcba9876543210":"67673138549669730857065648eabe43":POLARSSL_ERR_CAMELLIA_INVALID_KEY_LENGTH

Camellia-ECB Decrypt (Invalid key length)
camellia_decrypt_ecb:"0123456789abcdefdefedcba98765432":"0123456789abcdefdefedcba9876543210":"67673138549669730857065648eabe43":POLARSSL_ERR_CAMELLIA_INVALID_KEY_LENGTH

Camellia-256-CBC Encrypt (Invalid input length)
camellia_encrypt_cbc:"0000000000000000000000000000000000000000000000000000000000000000":"0000000000000000000000000000000000000000000000000000000000000000":"fffffffffffffffe0000000000000000000000000000000000000000000000000000000000000000":"0000000000000000000000000000000000000000000000000000000000000000":"0000000000000000000000000000000000000000000000000000000000000000":"623a52fcea5d443e48d9181ab32c74":"":POLARSSL_ERR_CAMELLIA_INVALID_INPUT_LENGTH

Camellia-256-CBC Decrypt (Invalid input length)
camellia_decrypt_cbc:"0000000000000000000000000000000000000000000000000000000000000000":"0000000000000000000000000000000000000000000000000000000000000000":"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:
      00:b9:3c:4a:c5:8:a3:3:8e:90:17:a4:9e:52:a0:71:
      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:
      ca:01:e3:35:7f:fa:20:ff:df:69:b2:6a:00:7d:
      17:7f
   Exponent: 65537 (0x10001)
X509v3 extensions:
   X509v3 Basic Constraints:
      CA:FALSE
   X509v3 Subject Key Identifier:
   X509v3 Authority Key Identifier:

X509v3 Subject Alternative Name:
   DNS:example.com, DNS:example.net, DNS:*example.org
Signature Algorithm: sha1WithRSAEncryption
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/
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
-----------------------------------------------------

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 ==============
###================================================================

[ 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

---

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des.c
dhm.c
extropy.c
extropy_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:"000000000000000000000000000000":"f34481ec3cc627bacd5dc3fb08f273e6":"0336763e966d92
595a567cc9ce537f5e":POLARSSL_ERR_AES_INVALID_KEY_LENGTH
AES-ECB Decrypt (Invalid keylength)
aes_decrypt_ecb:"000000000000000000000000000000":"f34481ec3cc627bacd5dc3fb08f273e6":"0336763e966d92
595a567cc9ce537f5e":POLARSSL_ERR_AES_INVALID_KEY_LENGTH
AES-256-CBC Encrypt (Invalid input length)
aes_encrypt_cbc:"0000000000000000000000000000000000000000000000000000000000000000":"000000000000
00000000000000000000":"ffffffffffffffe000000000000000":"":POLARSSL_ERR_AES_INVALID_INPUT_LENG
TH
AES-256-CBC Decrypt (Invalid input length)
aes_decrypt_cbc:"0000000000000000000000000000000000000000000000000000000000000000":"000000000000
00000000000000000000":"623a52fcea5d443e48d9181ab32c74":"":POLARSSL_ERR_AES_INVALID_INPUT_L
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>

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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_verify polarssl)

add_executable(rsa_sign_pss rsa_sign_pss.c)
target_link_libraries(rsa_sign_pss polarssl)

add_executable(rsa_verify_pss rsa_verify_pss.c)
target_link_libraries(rsa_verify_pss polarssl)

add_executable(rsa_encrypt rsa_encrypt.c)
target_link_libraries(rsa_encrypt polarssl)

add_executable(rsa_decrypt rsa_decrypt.c)
target_link_libraries(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-----
MIIEpAIBAAKCAQEAwU2j3efNHdEE10lyuJmsDnjkOjxKzzoTFlBa5MzjAlin7h5r
lqdStJdLVXj6p5Sa/LY0CT1d+pAmZtYwscCh9odrqjObJHJa8/sEEUrM21KP64bF2

-----END RSA PRIVATE KEY-----
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2JDBYrMujaiJOqQ3eReB30Zgtsq2B+g2Q0cLUlm91slc0boC4paQy1AJDh2oiQZn2uVcuLZxMhRoeJhv81ASQJuaAxxz45SRr/QuoRXa5/VqgaHkQYDw+fi9qLR7f1GMZLj&dmyjfp2DHzJ4kpAcWdQj8jv17HxydrxwU9esQCPJodPG/oNHbb3y3NLtUpbYEds6lH9pOvTD7DEw6S8Rx/fqfEgw1dIAQABaOIBAQCXROs8SEIIHFGORZ++At09w6eENd+xxf01f1eGz57To3QnXX7VBZDj+p1ECVhCE/G7XnxgU5hLZX+GZ0jzkjqlj0YQvRSLdBhpwNwouyBQAe/AiyUDljXyX1KE/ituHRbNc4j4kL8Z/r6pvwnTI0PSZx2Eqs048yD92LT6qAv4flbNdxMn2uY7+4ycS4Q8w1JXnCeaAnYmWY15wxs+tvRELR2Mcz5DmVnL6jRymZf6f6582bSw5ouReFlbyPZbQW1xgYgnpu6HeGTC7e1ZKYQG9/9+DQUI/1vQuCPqQwny0Qx2w5dYpdMdmVz+zkLtbajzvkJJaTWZL6lt5AoaGBAN86+SVEjDcmQ1cv4Eq6UltRr4QGMiQMz0Sod6ettYxYzMgxtw28CrlrpozC+c+UaZJLo7UxvC6an85r1b2nKPCPLQFaggJ0H4Q0J/sZOhBIAooBzWxvKnupeCDvxsFis8C6Dy86DBfnyFirvBj++47BbaQpBj7C4K7ULjab2rDAoGBAN2uAM2gchoFiuv4v1HFL8D7IweEpi6ZnMjlnEU/dEgGQJFjwdpLnPbsj4c75odQ4Gz8gsw9la90V9VbusoRE/JG4aT0dp0pATxyG7eG1Qu+5yc1YGXcCrliA2xM9xx+d7f+smpZn4WIEw5G9IDYFdzjAzhH5G5Nvi/PtMIC9d0qj2dAoGAF05KmwbjWHBhcVQ04cBvVn3B1lc1ue2YRXEDIxY5b0r8N4XceMgKmW18OHAPzxf8uPDauWZLXQgl4uepvwhZC3EuWrSyiCnh5L21A9thbIEBP3F5L3Z0wC+CUErL+dXWLDb56Gjy3g3aBeW7bvdRyEnocgjqCm7iu8kXHOBK356JYEAqwdHB0qhyNSzIOGY7v9azb6UpdA3B3ZiQyEs3LjHyVd4HPJ2x0N8CgrBIWOE0q8+0hSMeE969WW/7jD3fPWCR5zlXknBQsfv0gP3BCS5ROqdpz+d9zfMf625kyiAT/hzwhDveZU/Hnk1cFHG7Q+TOEnLnWAWEDEJISOWmKvCYAFeinXrgwAcu0+d760syCwAh6P0tsq9Y0i9GyWk89XzC4NdwvbBH4AgahOxlXu2xgJnq3yfFljlfwfxs2DyP0kY26u10eomPeY9mrl4StCuDQ6LrE

<?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>
</ItemGroup>
</Project>

--- END RSA PRIVATE KEY -----

R210212144406Z110212144407Z01unknown/C=NL/O=PolarSSL/CN=PolarSSL Server 1
V210212144406Z02unknown/C=NL/O=PolarSSL/CN=localhost
R210212144406Z110212144407Z01unknown/C=NL/O=PolarSSL/CN=PolarSSL Client 1
V210212144407Z02unknown/C=NL/O=PolarSSL/CN=PolarSSL Client 2
V210212144407Z05unknown/C=NL/O=PolarSSL/CN=PolarSSL Cert MD4
V210212144407Z05unknown/C=NL/O=PolarSSL/CN=PolarSSL Cert MD5
V210212144407Z05unknown/C=NL/O=PolarSSL/CN=PolarSSL Cert SHA1
V210212144407Z05unknown/C=NL/O=PolarSSL/CN=PolarSSL Cert SHA224
V210212144407Z05unknown/C=NL/O=PolarSSL/CN=PolarSSL Cert SHA256
V210212144407Z05unknown/C=NL/O=PolarSSL/CN=PolarSSL Cert SHA384
V210212144407Z05unknown/C=NL/O=PolarSSL/CN=PolarSSL Cert SHA512
V220207160636Z0Cunknown/C=NL/O=PolarSSL/CN=*.example.com
V220207160636Z0Cunknown/C=NL/O=PolarSSL/CN=example.com
V220207160636Z0Cunknown/C=NL/O=PolarSSL/CN=www.example.com
V220207160636Z0Cunknown/C=NL/O=PolarSSL/CN=www.example.com
V220211172552Z00unknown/C=NL/O=PolarSSL/CN=www.example.com
V220211172552Z01unknown/C=NL/O=PolarSSL/CN=www.example.com
V220511132341Z1unknown/C=NL/O=PolarSSL/CN=www.example.com

</Project>
<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>
  <ClCompile Include="..\..\programs\test\selftest.c" />
</ItemGroup>

<ItemGroup>
  <ProjectReference Include="PolarSSL.vcxproj">
    <Project>{46cf2d25-6a36-4189-b59c-e4815388e554}</Project>
  </ProjectReference>
</ItemGroup>

<PropertyGroup Label="Globals">
  <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>
</PropertyGroup>

<PropertyGroup Condition="$(Configuration)|$(Platform)=='Release|x64'" Label="Configuration">
  <ConfigurationType>Application</ConfigurationType>
  <UseDebugLibraries>false</UseDebugLibraries>
  <WholeProgramOptimization>true</WholeProgramOptimization>
</PropertyGroup>
<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>
  <LinkLibraryDependencies>false</LinkLibraryDependencies>
</Link>

<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 />
</ItemDefinitionGroup>

<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>
  </Link>
</ItemDefinitionGroup>
<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>
    <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="$(VCTargetsPath)\Microsoft.Cpp.targets" />
<ImportGroup Label="ExtensionTargets" />
</ImportGroup>
</Project>
Condition="exists($UserRootDir)\Microsoft.Cpp.$(Platform).user.props)" Label="LocalAppDataPlatform" />
</ImportGroup>

<ImportGroup Label="PropertySheets" Condition="$(Configuration)$Platform)="Release|Win32">
</ImportGroup>

<ImportGroup Condition="$(Configuration)$Platform)="Release|x64">
</ImportGroup>

<PropertyGroup Condition="$(Configuration)$Platform)="Debug|Win32">
  <LinkIncremental>true</LinkIncremental>
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<PropertyGroup Condition="$(Configuration)$Platform)="Debug|x64">
  <LinkIncremental>true</LinkIncremental>
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<PropertyGroup Condition="$(Configuration)$Platform)="Release|Win32">
  <LinkIncremental>false</LinkIncremental>
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<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>
    <PreprocessorDefinitions>WIN32;_DEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
  </ClCompile>
</ItemDefinitionGroup>

<ItemDefinitionGroup Condition="$(Configuration)$Platform)="Debug|x64">
  <ClCompile>
    <PrecompiledHeader>
    </PrecompiledHeader>
    <WarningLevel>Level3</WarningLevel>
    <Optimization>Disabled</Optimization>
    <PreprocessorDefinitions>WIN32;_DEBUG;_CONSOLE;%(PreprocessorDefinitions)</PreprocessorDefinitions>
  </ClCompile>
</ItemDefinitionGroup>

<PropertyGroup Condition="$(Configuration)$Platform)="Release|Win32">
  <LinkIncremental>false</LinkIncremental>
</PropertyGroup>

<PropertyGroup Condition="$(Configuration)$Platform)="Release|x64">
  <LinkIncremental>false</LinkIncremental>
</PropertyGroup>

<ItemDefinitionGroup Condition="$(Configuration)$Platform)="Release|Win32">
  <Link>
    <SubSystem>Console</SubSystem>
    <GenerateDebugInformation>true</Gener
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:
Signature Algorithm: sha1WithRSAEncryption
02:7f:3a:8a:c0:0c:f1:7f:a6:57:02:6a:78:8b:6d:e8:4f:6c:
13:2c:3d:31
-----BEGIN CERTIFICATE----MIIDPzCCAiegAwIBAgIBBDANBgkqhkiG9w0BAQUFADA7MQswCQYDVQQGEwJOTDER
MA8GA1UEChMIUG9sYXJTU0wxGTAXBgNVBAMTEFBvbGFyU1NMIFRlc3QgQ0EwHhcN
MTEwMjEyMTQ0NDA3WhcNMjEwMjEyMTQ0NDA3WjA8MQswCQYDVQQGEwJOTDERMA8G
A1UEChMIUG9sYXJTU0wxGjAYBgNVBAMTEVBvbGFyU1NMIENsaWVudCAyMIIBIjAN
BgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAyHTEzLn5tXnpRdkUYLB9u5Pyax6f
M60Nj4o8VmXl3ETZzGaFB9X4J7BKNdBjngpuG7fa8H6r7gwQk4ZJGDTzqCrSV/Uu
1C93KYRhTYJQj6eVSHD1bk2y1RPD0hrt5kPqQhTrdOrA7R/UV06p86jt0uDBMHEw
MjDV0/YI0FZPRo7yX/k9Z5GIMC5Cst99++UMd//sMcB4j7/Cf8qtbCHWjdmLao5v

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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
c_enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:0

BLOWFISH Encrypt and decrypt 1 byte
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:1

BLOWFISH Encrypt and decrypt 2 bytes
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:2

BLOWFISH Encrypt and decrypt 7 bytes
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:7

BLOWFISH Encrypt and decrypt 8 bytes
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:8

BLOWFISH Encrypt and decrypt 9 bytes
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:9

BLOWFISH Encrypt and decrypt 15 bytes
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:15

BLOWFISH Encrypt and decrypt 16 bytes
depends_on:POLARSSL_BLOWFISH_C
c_enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:16

BLOWFISH Encrypt and decrypt 17 bytes
depends_on:POLARSSL_BLOWFISH_C
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

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
cenc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CBC:BLOWFISH-CBC:128:49

BLOWFISH Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_BLOWFISH_C
cenc_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
cenc_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
cenc_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
cenc_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
cenc_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
cenc_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
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
c_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
c_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
c_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
c_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
c_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
c_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
c_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 47 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:47

BLOWFISH Encrypt and decrypt 48 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:48

BLOWFISH Encrypt and decrypt 49 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CFB64:BLOWFISH-CFB64:128:49

BLOWFISH Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CFB64:128:0:0:

BLOWFISH Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CFB64:128:1:0:

BLOWFISH Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CFB64:128:0:1:

BLOWFISH Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CFB64:128:16:0:
BLOWFISH Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CFB64:128:0:16:

BLOWFISH Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CFB64:128:1:15:

BLOWFISH Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CFB64:128:15:1:

BLOWFISH Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CFB64:128:15:7:

BLOWFISH Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CFB
enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CFB64:128:16:6:

BLOWFISH Encrypt and decrypt 22 bytes in multiple parts 1
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
crc_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
crc_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
crc_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
crc_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
crc_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
crc_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
crc_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
crc_enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:47

BLOWFISH Encrypt and decrypt 48 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
crc_enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:48

BLOWFISH Encrypt and decrypt 49 bytes
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
crc_enc_dec_buf:POLARSSL_CIPHER_BLOWFISH_CTR:BLOWFISH-CTR:128:49

BLOWFISH Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
crc_enc_dec_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CTR:0:0:

BLOWFISH Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
crc_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
crc_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
crc_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
crc_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
crc_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
crc_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
crc_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:15:7:

BLOWFISH Encrypt and decrypt 22 bytes in multiple parts 2
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
crc_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:16:6:

BLOWFISH Encrypt and decrypt 22 bytes in multiple parts 3
depends_on:POLARSSL_BLOWFISH_C:POLARSSL_CIPHER_MODE_CTR
crc_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
crc_buf_multipart:POLARSSL_CIPHER_BLOWFISH_CTR:128:16:16:

-----BEGIN X509 CRL-----
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UG9sYXJTU0wxGTAXBgNVBAMTEFBvbGFyU1NMIFRlc3QgQ0ExDTE0MTIwNjE0MDEw
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GU24hd6d/5PmDusT+h2Kl
c7scmhZDPu+/+JINzeHdEREYTPaoFqyVbUIO951ZELcdiOauh03IG2WEQVGceEc
4jS2EzR3BfXy1c1uqGtd+jJ7oA97OLuydy6KeauomiWho2Td7bSaXHy20jdLko
/t31VhTlb+Kbh8XHYwCaw1aCj3LydwdNeS+zPnRgsMVHszFxmNn5HCRW8lbYwcf
UA98Omx1Z2hpBKRpsfA5y6sXEx2+isMg+MjrziGBgG60Rm+m+/TnA5YIe9nC+y
hKKe+8phktv1B1CY5Ak4Uke9/1FRqAjs5CRxYSQFTZdS7DGeGw7TsILb/7Y=
-----END 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
c_enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:0

NULL Encrypt and decrypt 1 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
c_enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:1

NULL Encrypt and decrypt 2 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
c_enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:2

NULL Encrypt and decrypt 7 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
c_enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:7

NULL Encrypt and decrypt 8 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
c_enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:8

NULL Encrypt and decrypt 9 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
c_enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:9

NULL Encrypt and decrypt 15 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
c_enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:15

NULL Encrypt and decrypt 16 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
c_enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:16

NULL Encrypt and decrypt 31 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
c_enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:31

NULL Encrypt and decrypt 32 bytes
depends_on:POLARSSL_CIPHER_NULL_CIPHER
c_enc_dec_buf:POLARSSL_CIPHER_NULL:NULL:0:32

NULL Encrypt and decrypt 33 bytes
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: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:NULL:0:0:1:

NULL Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf_multipart:POLARSSL_CIPHER_NULL:NULL:0:16:0:

NULL Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf_multipart:POLARSSL_CIPHER_NULL:NULL:0:0:16:

NULL Encrypt and decrypt 16 bytes in multiple parts 3
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf_multipart:POLARSSL_CIPHER_NULL:NULL:0:1:15:

NULL Encrypt and decrypt 16 bytes in multiple parts 4
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf_multipart:POLARSSL_CIPHER_NULL:NULL:0:15:1:

NULL Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf_multipart:POLARSSL_CIPHER_NULL:NULL:0:15:7:

NULL Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_CIPHER_NULL_CIPHER
enc_dec_buf_multipart:POLARSSL_CIPHER_NULL:NULL:0:16:6:

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:

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:
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
c enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:0

DES Encrypt and decrypt 1 byte
depends_on:POLARSSL_DES_C
c enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:1

DES Encrypt and decrypt 2 bytes
depends_on:POLARSSL_DES_C
c enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:2

DES Encrypt and decrypt 7 bytes
depends_on:POLARSSL_DES_C
c enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:7

DES Encrypt and decrypt 8 bytes
depends_on:POLARSSL_DES_C
c enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:8

DES Encrypt and decrypt 9 bytes
depends_on:POLARSSL_DES_C
c enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:9

DES Encrypt and decrypt 15 bytes
depends_on:POLARSSL_DES_C
c enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:15

DES Encrypt and decrypt 16 bytes
depends_on:POLARSSL_DES_C
c enc_dec_buf:POLARSSL_CIPHER_DES_CBC:DES-CBC:56:16

DES Encrypt and decrypt 17 bytes
depends_on:POLARSSL_DES_C
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_DES_CBC: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
cenc_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
cenc_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
cenc_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
cenc_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
cenc_dec_buf_multipart:POLARSSL_CIPHER_DES_CBC:56:16:16:

DES Encrypt and decrypt 0 bytes
depends_on:POLARSSL_DES_C
cenc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:0

DES3 Encrypt and decrypt 1 byte
depends_on:POLARSSL_DES_C
cenc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:1

DES3 Encrypt and decrypt 2 bytes
depends_on:POLARSSL_DES_C
cenc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:2

DES3 Encrypt and decrypt 7 bytes
depends_on:POLARSSL_DES_C

DES3 Encrypt and decrypt 8 bytes
depends_on:POLARSSL_DES_C
cenc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:8

DES3 Encrypt and decrypt 9 bytes
depends_on:POLARSSL_DES_C
cenc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:9

DES3 Encrypt and decrypt 15 bytes
depends_on:POLARSSL_DES_C
cenc_dec_buf:POLARSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:15
DES3 Encrypt and decrypt 16 bytes
depends_on:POLARCSSL_DES_C
c_enc_dec_buf:POLARCSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:16

DES3 Encrypt and decrypt 17 bytes
depends_on:POLARCSSL_DES_C
c_enc_dec_buf:POLARCSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:17

DES3 Encrypt and decrypt 31 bytes
depends_on:POLARCSSL_DES_C
c_enc_dec_buf:POLARCSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:31

DES3 Encrypt and decrypt 32 bytes
depends_on:POLARCSSL_DES_C
c_enc_dec_buf:POLARCSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:32

DES3 Encrypt and decrypt 32 bytes
depends_on:POLARCSSL_DES_C
c_enc_dec_buf:POLARCSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:33

DES3 Encrypt and decrypt 47 bytes
depends_on:POLARCSSL_DES_C
c_enc_dec_buf:POLARCSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:47

DES3 Encrypt and decrypt 48 bytes
depends_on:POLARCSSL_DES_C
c_enc_dec_buf:POLARCSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:48

DES3 Encrypt and decrypt 49 bytes
depends_on:POLARCSSL_DES_C
c_enc_dec_buf:POLARCSSL_CIPHER_DES_EDE_CBC:DES-EDE-CBC:112:49

DES3 Encrypt and decrypt 0 bytes in multiple parts
depends_on:POLARCSSL_DES_C
c_enc_dec_buf_mult:POLARCSSL_CIPHER_DES_EDE_CBC:112:0:0:

DES3 Encrypt and decrypt 1 bytes in multiple parts 1
depends_on:POLARCSSL_DES_C
c_enc_dec_buf_mult:POLARCSSL_CIPHER_DES_EDE_CBC:112:1:0:

DES3 Encrypt and decrypt 1 bytes in multiple parts 2
depends_on:POLARCSSL_DES_C
c_enc_dec_buf_mult:POLARCSSL_CIPHER_DES_EDE_CBC:112:0:1:

DES3 Encrypt and decrypt 16 bytes in multiple parts 1
depends_on:POLARCSSL_DES_C
c_enc_dec_buf_mult:POLARCSSL_CIPHER_DES_EDE_CBC:112:16:0:
DES3 Encrypt and decrypt 16 bytes in multiple parts 2
depends_on:POLARSSL_DES_C
enc_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
enc_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
enc_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
enc_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
enc_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
enc_dec_buf_multipart:POLARSSL_CIPHER_DES_EDE_CBC:112:17:6:

DES3 Encrypt and decrypt 32 bytes in multiple parts 1
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 47 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:47

DES3 Encrypt and decrypt 48 bytes
depends_on:POLARSSL_DES_C
enc_dec_buf:POLARSSL_CIPHER_DES_EDE3_CBC:DES-EDE3-CBC:168:48

DES3 Encrypt and decrypt 49 bytes
depends_on:POLARSSL_DES_C
enc_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
enc_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
enc_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
enc_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
enc_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
enc_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
enc_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
enc_dec_buf_multipart:POLARSSL_CIPHER_DES_EDE3_CBC:168:16:15:

DES3 Encrypt and decrypt 22 bytes in multiple parts 1
depends_on:POLARSSL_DES_C
enc_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
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
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
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:"32ece01ec4a6dac72c0ab96fb34c0b5d1"

md2 Test vector RFC1319 #3
depends_on:POLARSSL_MD2_C
md2_text:"da853b0d3f88d99b30283a69e6ded6bb"
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":"4e8dff3650292ab5a4108c3aa47940b"

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":"d5976f79d83d3a0de9806c3c66f3ef8d8"

md4 Test vector RFC1320 #1
depends_on:POLARSSL_MD4_C
md4_text:"":"31d6cfe0d16ae931b73c59d7e0c089c0"

md4 Test vector RFC1320 #2
depends_on:POLARSSL_MD4_C
md4_text:"a":"bde52cb31de33e46245e05fbdbd6fb24"

md4 Test vector RFC1320 #3
depends_on:POLARSSL_MD4_C
md4_text:"abc":"a448017aaf21d8525fc10ae87aa6729d"

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:"abcdefghijklmnopqrstuvwxyz":"d79e1c308aa5bbcddeaa8ed63df412da9"

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:"123456789012345678901234567890123456789012345678901234567890":"e33b44dc9c38f2199c3e7b164fccc0536"
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:"abcdefgijklmnopqrstuvwxyz":"c3fcd3d76192e4007dfb496cca67e13b"

md5 Test vector RFC1321 #6
depends_on:POLARSSL_MD5_C
md5_text:"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789":"d174ab98d277d9f5a5611c2e9f419d9f"

md5 Test vector RFC1321 #7
depends_on:POLARSSL_MD5_C
md5_text:"1234567890123456789012345678901234567890123456789012345678901234567890":"57edf4a22be3c955ac49da2e2107b67a"

HMAC-MD2 Hash File OpenSSL test #1
depends_on:POLARSSL_MD2_C
md2_hmac:16:"61616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"d5732582f494f5d35efd166c85af9c"

HMAC-MD2 Hash File OpenSSL test #2
depends_on:POLARSSL_MD2_C
md2_hmac:16:"61616161616161616161616161":"270cf1f1f27c27448457d7049a7edb084a3e554e0b2acf5806998221f30aad16402e4c869e4f4f217e18e3489baa3125d2c3056eb616296f9b6aa97ef68eeabed0b6dde47775004096a241efcfa0a90d19b34e898cc7340cd940f8b0d46e23e352f34bca131d467a7c2d8b0d6867f06152a128168e1c341c37e0a66c5018999b7059b0c300beed2c19dd1152d2fe06d2853293b8f3e8b5":"54ab68503f7d1b5c7741340df2722a9"

HMAC-MD2 Hash File OpenSSL test #3
depends_on:POLARSSL_MD2_C
md2_hmac:16:"61616161616161616161616161":"270cf1f1f27c27448457d7049a7edb084a3e554e0b2acf5806998221f30aad16402e4c869e4f4f217e18e3489baa3125d2c3056eb616296f9b6aa97ef68eeabed0b6dde47775004096a241efcfa0a90d19b34e898cc7340cd940f8b0d46e23e352f34bca131d467a7c2d8b0d6867f06152a128168e1c341c37e0a66c5018999b7059b0c300beed2c19dd1152d2fe06d2853293b8f3e8b5":"54ab68503f7d1b5c7741340df2722a9"
HMAC-MD4 Hash File OpenSSL test #1
depends_on:POLARSSL_MD4_C
md4_hmac:16:"61616161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"eabd0fbeb82fb0063a25a6d7b8bdc0f"

HMAC-MD4 Hash File OpenSSL test #2
depends_on:POLARSSL_MD4_C
md4_hmac:16:"61616161616161616161616161616161":"270fcf11f27c27448457d7049a7edb084a3e554e0b2acf5806982213f0ad516402e4c869c4ff2171e18e3489baa3125d2c3056ebb616296f9b6aa97ef68eeabcdec0b6dde47775004096a241efcf0a90d19b34e898cc7340cde940f8bdd46e23e352f34bca131d4d67a7c2dd8d0d68b67f06152a128168e1c341c37e0a66c5018999b7059bce300beed2c19dd1152d2fe062853293b8f3c8b5":"ccc3c5e421a7b783aa89cacf78daf6e"

HMAC-MD4 Hash File OpenSSL test #3
depends_on:POLARSSL_MD4_C
md4_hmac:16:"61616161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"ad5f0a04116109b397b579fc9b6df4b"

HMAC-MD5 Hash File OpenSSL test #1
depends_on:POLARSSL_MD5_C
md5_hmac:16:"61616161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"42552882f00bd4633ea81135a184b284"

HMAC-MD5 Hash File OpenSSL test #2
depends_on:POLARSSL_MD5_C
md5_hmac:16:"61616161616161616161616161616161":"7049a7edb084a3e554e0b2acf5806982213f0ad516402e4c869c4ff2171e18e3489baa3125d2c3056ebb616296f9b6aa97ef68eeabcdec0b6dde47775004096a241efcf0a90d19b34e898cc7340cde940f8bdd46e23e352f34bca131d4d67a7c2dd8d0d68b67f06152a128168e1c341c37e0a66c5018999b7059bce300beed2c19dd1152d2fe062853293b8f3c8b5":"a16a842891786d01fe50ba7731db7464"

HMAC-MD5 Hash File OpenSSL test #3
depends_on:POLARSSL_MD5_C
md5_hmac:16:"61616161616161616161616161616161":"b91ce5ac77d33c234e61002ed6":"e97f623936f98a7f741c4bd0612feccc2"

HMAC-MD5 Test Vector RFC2202 #1
depends_on:POLARSSL_MD5_C
md5_hmac:16:"0b0b0b0b0b0b0b0b0b0b0b0b0b0b0b0b":"4869205468657265":"9294727a3638bb1c13f48ef8158bfec9d"

HMAC-MD5 Test Vector RFC2202 #2
depends_on:POLARSSL_MD5_C
md5_hmac:16:"4a656665":"7768617420646f2079612077616e7420666f7720206e6f7468696e673f":"750c783e6ab0b503ea86e310a5db738"
md2_file: "data_files/hash_file_1": "b593c098712d2e21628c8986695451a8"

MD2 Hash file #2
depends_on: POLARSSL_MD2_C: POLARSSL_FS_IO
md2_file: "data_files/hash_file_2": "3c027b7409909a4c4b26bbab69ad9f4f"

MD2 Hash file #3
depends_on: POLARSSL_MD2_C: POLARSSL_FS_IO
md2_file: "data_files/hash_file_3": "6bb43eb285e81f414083a94cdbe2989d"

MD2 Hash file #4
depends_on: POLARSSL_MD2_C: POLARSSL_FS_IO
md2_file: "data_files/hash_file_4": "8350e5a3e24c153df2275c9f80692773"

MD4 Hash file #1
depends_on: POLARSSL_MD4_C: POLARSSL_FS_IO
md4_file: "data_files/hash_file_1": "8d19772c176bd27153b9486715e2c0b9"

MD4 Hash file #2
depends_on: POLARSSL_MD4_C: POLARSSL_FS_IO
md4_file: "data_files/hash_file_2": "f2ac53b8542882a5a0007c6f84b4d9fd"

MD4 Hash file #3
depends_on: POLARSSL_MD4_C: POLARSSL_FS_IO
md4_file: "data_files/hash_file_3": "195c15158e2d07881d9a654095ce4a42"

MD4 Hash file #4
depends_on: POLARSSL_MD4_C: POLARSSL_FS_IO
md4_file: "data_files/hash_file_4": "31d6cfe0d16ae931b73c59d7e0c089c0"

MD5 Hash file #1
depends_on: POLARSSL_MD5_C: POLARSSL_FS_IO
md5_file: "data_files/hash_file_1": "52bcd9839ed646c148a759b3c7a415"

MD5 Hash file #2
depends_on: POLARSSL_MD5_C: POLARSSL_FS_IO
md5_file: "data_files/hash_file_2": "d17d466f15891df10542207ae78277f0"

MD5 Hash file #3
depends_on: POLARSSL_MD5_C: POLARSSL_FS_IO
md5_file: "data_files/hash_file_3": "d945bcc6200e95d061a9a818167d920"

MD5 Hash file #4
depends_on: POLARSSL_MD5_C: POLARSSL_FS_IO
md5_file: "data_files/hash_file_4": "d41d8cd98f00b204e9800998ecf8427e"

MD2 Selftest
depends_on: POLARSSL_MD2_C: POLARSSL_SELF_TEST
md2_selftest:

MD4 Selftest
depends_on:POLARSSL_MD4_C:POLARSSL_SELF_TEST
md4_selftest:

MD5 Selftest
depends_on:POLARSSL_MD5_C:POLARSSL_SELF_TEST
md5_selftest:

-----BEGIN RSA PRIVATE KEY-----
MIICWwIBAAKBgQDA0UszjREIJkJlUyevaN8fb0Gp13Dzb4pY3MCoJK15BWoecUFAIV
vu0C8bRm/100489n9RrRjw+S89YbYy1C73PugKZSjjsnEFA4chcSOKohZIIM
6K7+Pcrx+sdiDu1DhecODMISFoxt+H6fUvBEGkl5AWFu5MDP7wI/U/AZfQIDAQAB
AoGAU6o9HEluZYNUZDodmdI8YjgEcdf0jWmgpmnkk4X65xa2KG45LWBFJXADbc
5mc5ZSfQHuaKuYTKdhRRwh59c9VPwYhN8hgdfZhdJS9KfJTDTuKhsZrdomHRN2HK
Jn5MrbVCeZPbYS0M1PzVgEz/BRGp4Ik3RAXTlt+XBTunHAA0CQDz6Gor3gFTdCWM
XtrWEIMW+a+WPUBtOhw3UOYgpWqdea36YcXd9DEIIKnn9bQ4g05jkpO7jd/ccBm
zM89dfjXAKeAymB11gLDD0ZhuUCk155uBucaZee/VNueGvjWDPbRInqJg+2JW2
g5gXNFeSTY9iKLDblLzYdywOXM3d6RywJAIqFYGbxeodO21ROQq+BGjHeMWwrf
Godi7Uue9FmoJo21NvyZX4chQw80M5Q8DocMwC36wQ8yZac/4WwqZwJAbMly
EXUvrcIklSO601xjToVhGTLnL/COPCpecOZ6k+DujivVqX3g1BiysWv1XR55To
mmeF30PVtCfiehijQJATsyRPJ1FOYIliywMSaGHqSpVoebWbDQ6BhYOOhm35rz
ZdTun1+7WrtPoxM+LQmPExd7VDq2L4SetYB/Md1OSQ==
-----END RSA PRIVATE KEY-----

option(INSTALL_POLARSSL_HEADERS "Install PolarSSL headers." ON)

if(INSTALL_POLARSSL_HEADERS)

file(GLOB headers "polarssl/*.h")

install(FILES ${headers}
LOCATION include/polarssl
PERMISSIONS OWNER_READ OWNER_WRITE GROUP_READ WORLD_READ)

dendif(INSTALL_POLARSSL_HEADERS)

AES-128-ECB Encrypt NIST KAT #1
aescrypt_ecb:00000000000000000000000000000000:03f481ec3cc627bacd5c3b0f273e6:0336763e966d92595a56779ec537f5e:0

AES-128-ECB Encrypt NIST KAT #2
aescrypt_ecb:00000000000000000000000000000000:9798c460bad75c7c3227db910174e72:0a91a631bf499654bec93937b234589:0

AES-128-ECB Encrypt NIST KAT #3
aescrypt_ecb:00000000000000000000000000000000:96ab5c2ff612d9f07e08c31f30c42168:ff4f8391a6a40ca5b25d23bedd44a597:0

AES-128-ECB Encrypt NIST KAT #4
AES-128-ECB Encrypt NIST KAT #5
aes_encrypt_ecb:"f00000000000000000000000000000000"::000000000000000000000000000000000::"f17e79aed0db7e279e955b5f493875a7":0

AES-128-ECB Encrypt NIST KAT #6
aes_encrypt_ecb:"1800000000000000000000000000000000"::000000000000000000000000000000000::"f17e79aed0db7e279e955b5f493875a7":0

AES-128-ECB Encrypt NIST KAT #7
aes_encrypt_ecb:"ffffffffffffffff000000000000000000000000000000000":7b90785125505fadb59b13c186dd66ce3::0

AES-128-ECB Encrypt NIST KAT #8
aes_encrypt_ecb:"ffffffffffffffff800000000000000000000000000000000":8b527a6aebdaec9eae8eda2cb7783e5::0

AES-128-ECB Encrypt NIST KAT #9
aes_encrypt_ecb:"ffffffffffffffff000000000000000000000000000000000":43fda53ebbc9880c228617d6a9b548b::0

AES-128-ECB Encrypt NIST KAT #10
aes_encrypt_ecb:"ffffffffffffffff000000000000000000000000000000000":70c46bb30692be657f7eaa93ebad9897::0

AES-128-ECB Encrypt NIST KAT #11
aes_encrypt_ecb:"ffffffffffffffff000000000000000000000000000000000":323994c9da285a5d9642e1759b224a::0

AES-128-ECB Encrypt NIST KAT #12
aes_encrypt_ecb:"ffffffffffffffff000000000000000000000000000000000":1dbf57877b7b17385e85d0b54851e371::0

AES-128-ECB Encrypt NIST KAT #13
aes_encrypt_ecb:"000000000000000000000000000000000":3a4d354f02bb5a5e47d396636f7e246a::0

AES-128-ECB Encrypt NIST KAT #14
aes_encrypt_ecb:"000000000000000000000000000000000":d451b8d6e1e1a0e6a5eb5fbbf6e7b7dc3::0

AES-128-ECB Encrypt NIST KAT #15
aes_encrypt_ecb:"000000000000000000000000000000000":6898d4f42fa7ba6a10ac05e87b9f2080::0

AES-128-ECB Encrypt NIST KAT #16
Open Source Used In HyperFlex HX Data Platform 5.0(2a)  7520

AES-128-ECB Encrypt NIST KAT #17
aes_encrypt_ecb:"00000000000000000000000000000000":"fffffffffffffffffffffffe0000000":"082eb8be35f442fb526 68e16a591d1d6":0

AES-128-ECB Encrypt NIST KAT #18
aes_encrypt_ecb:"00000000000000000000000000000000":"ffffffffffffffffffffff8000000":"2ca8209d63274ed9a29 bb74bcd77683a":0

AES-128-ECB Decrypt NIST KAT #1
aes_decrypt_ecb:"00000000000000000000000000000000":"db4f1aa5309676d6732ce4715eb0ee24b":"ff0000000000 000000000000000000":0

AES-128-ECB Decrypt NIST KAT #2
aes_decrypt_ecb:"00000000000000000000000000000000":"a81738252621d1d180a34f3455b4baa2f":"ff8000000000 000000000000000000":0

AES-128-ECB Decrypt NIST KAT #3
aes_decrypt_ecb:"00000000000000000000000000000000":"77e2b508db7fd89234ca77939ee5621a":"ffe00000000 000000000000000000":0

AES-128-ECB Decrypt NIST KAT #4
aes_decrypt_ecb:"00000000000000000000000000000000":"dc43be40be0e53712f7e5b3565b7a729":"d6a18a874519 e64e96963798a503f1d35":0

AES-128-ECB Decrypt NIST KAT #5
aes_decrypt_ecb:"00000000000000000000000000000000":"92beedab1895a94faa6b632e5cc47ce":"cb9f7e8e8128 6ca3e989bd979b0cb284":0

AES-128-ECB Decrypt NIST KAT #6
aes_decrypt_ecb:"00000000000000000000000000000000":"459264f4f798f6a78b8e632e15ed3d601":"b26aeb1874e4 7ca8358f22378f09144":0

AES-128-ECB Decrypt NIST KAT #7
aes_decrypt_ecb:"b69418a85332240dc82492353956a0e":"a303d940ded8f0baff6f75414ec5243":"0000000000000 000000000000000000":0

AES-128-ECB Decrypt NIST KAT #8
aes_decrypt_ecb:"71b5e08a1993e1362e4d0ce9b22b78d5":"c2dabd117f8a33ecabfbb11d12194ed9d0":"000000000000 000000000000000000":0

AES-128-ECB Decrypt NIST KAT #9
aes_decrypt_ecb:"e234dca2606b81f29408d5f6da21206":"fff60a4740086b3b9c56195b98d91a7b":"0000000000000 000000000000000000":0

AES-128-ECB Decrypt NIST KAT #10
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 7522

AES-192-ECB Encrypt NIST KAT #1
aes_encrypt_ecb: "fffffffffffffffffffffffffffffffff00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
AES-256-ECB Encrypt NIST KAT #12
aes_encrypt_ecb:"ffffffffffffffffffffffffffffffffffffffffc00000000000000000000000000000000":"b4da5df4bebc5462e03a0ed00d295629":0

AES-256-ECB Decrypt NIST KAT #1
aes_decrypt_ecb:"ffffffffffffffffffffffffffffffffffffffffc00000000000000000000000000000000":"edf61ae362e882ddc0167474a7a77f3a":"00000000000000000000000000000000":0

AES-256-ECB Decrypt NIST KAT #2
aes_decrypt_ecb:"ffffffffffffffffffffffffffffffffffffffff80000000000000000000000000000000":"6168b00ba7859e0970ecfd757efecf7c":"00000000000000000000000000000000":0

AES-256-ECB Decrypt NIST KAT #3
aes_decrypt_ecb:"ffffffffffffffffffffffffffffffffffffffffc00000000000000000000000000000000":"d1415447866230d28bb1ea18a4cdf0d2":"00000000000000000000000000000000":0

AES-256-ECB Decrypt NIST KAT #4
aes_decrypt_ecb:"f8be9ba615c5a952cabcaa24f68f8593039624d524c816acda2c9183bd917cb9":"a3944b95ca0b52043584ef02151926a8":"00000000000000000000000000000000":0

AES-256-ECB Decrypt NIST KAT #5
aes_decrypt_ecb:"797f8b3d176dace5b7e34a2d539c4ef367a16f86356f264737591c5cf07bf57a3e":"a74289fe73a4c13ca189eae11b49a5":"00000000000000000000000000000000":0

AES-256-ECB Decrypt NIST KAT #6
aes_decrypt_ecb:"6838d40ca927749c13f0329d331f448e202c73ef52c5f73a37ca635d4e47707":"b91d4ea4488644b56cf0812fa77cf5fc":"00000000000000000000000000000000":0

AES-256-ECB Decrypt NIST KAT #7
aes_decrypt_ecb:"0000000000000000000000000000000000000000000000000000000000000000":"623a52fcea48d9181ab32c7421":"761c1fe41a18acf20d2d41656011d90f1":0

AES-256-ECB Decrypt NIST KAT #8
aes_decrypt_ecb:"0000000000000000000000000000000000000000000000000000000000000000":"38f2c7ae10612415d27ca190d27da8b4":"8a560769d605868ad808d819bda03771":0

AES-256-ECB Decrypt NIST KAT #9
aes_decrypt_ecb:"0000000000000000000000000000000000000000000000000000000000000000":"1bc704f1bce135ceb810341b216d7abe":"91fbeb2d15a97816060bee1fear9afe":0

AES-256-ECB Decrypt NIST KAT #10
aes_decrypt_ecb:"0000000000000000000000000000000000000000000000000000000000000000":"ddc6bf790c15760d8d9aeb6f9a75fd4e":"80000000000000000000000000000000":0

AES-256-ECB Decrypt NIST KAT #11
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<tr>
<th>AES-256-ECB Decrypt NIST KAT #12</th>
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<tr>
<td>aes_decrypt_ebc:&quot;0000000000000000000000000000000000000000000000000000000000000000&quot;:&quot;0a6bdc6d4c1e6 280301fd8e97dab6e01&quot;;&quot;c0000000000000000000000000000000000000000000000000000000000000000&quot;:0</td>
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</tbody>
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<tr>
<th>AES-256-ECB Decrypt NIST KAT #12</th>
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<tbody>
<tr>
<td>aes_decrypt_ebc:&quot;0000000000000000000000000000000000000000000000000000000000000000&quot;:&quot;9b80eebf7ebe2 d2b16247aa0efc72f5d&quot;;&quot;e0000000000000000000000000000000000000000000000000000000000000000&quot;:0</td>
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<table>
<thead>
<tr>
<th>GCM NIST Validation (AES-256,128,0,0,128) #0</th>
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</thead>
<tbody>
<tr>
<td>gcm_encrypt_and_tag:&quot;fb8094dd2edd3b8004b79134023ca2be4de9b668a9e4608adb2f130e8ebeb8&quot;;&quot;491a14e1 3b591cf2f39ad96b6882b5e5&quot;;&quot;8083f2c925434a5edfcedf5b123d520&quot;:0</td>
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</table>

<table>
<thead>
<tr>
<th>GCM NIST Validation (AES-256,128,0,0,128) #1</th>
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<tbody>
<tr>
<td>gcm_encrypt_and_tag:&quot;725313f4cb3fa0d29cefc1741b7e4f43cecf11b7e75e1995cb64c1306795f1&quot;;&quot;27d1ed08aba23d79fc49ad89a2a0eaa&quot;:128:&quot;d5d637ba35ef2ad88e9725f938d3d2d&quot;:0</td>
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<table>
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<tr>
<th>GCM NIST Validation (AES-256,128,0,0,128) #2</th>
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<tr>
<td>gcm_encrypt_and_tag:&quot;4e766584ce0e885e1bba1327f5335796d0831a0f74a5ccce178081dd15bf10&quot;;&quot;cece0dea024ff47851af0500d1d6cbe&quot;:128:&quot;1abe16eeab56bd0fb1ab9098b8d28771&quot;:0</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>GCM NIST Validation (AES-256,128,0,0,120) #0</th>
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</thead>
<tbody>
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<td>gcm_encrypt_and_tag:&quot;85f8fa4ec6a12061735095d04d0b29dfbfbfa9aa528254b189cd72e6ebc1f&quot;:128:&quot;693146ab833f324c1d4cebeb8c146&quot;:0</td>
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<tr>
<th>GCM NIST Validation (AES-256,128,0,0,120) #1</th>
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<tr>
<td>gcm_encrypt_and_tag:&quot;25896e587570ff1823639e1e51e9c89192d551b573d747e7c0c1e10916e4e4e&quot;:128:&quot;7d3d5cc55e6182ec5413ef622d4f&quot;:0</td>
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<tr>
<th>GCM NIST Validation (AES-256,128,0,0,112) #0</th>
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<tr>
<td>gcm_encrypt_and_tag:&quot;720ab5aceb80ff1f864379add90b0d63607227f7c3584255d66ec3d4aea3fe2ea&quot;:128:&quot;58f2317afbf64d89a243c192ef5191300&quot;:104:&quot;e8e772402c6b6df96a140b42c1&quot;:0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GCM NIST Validation (AES-256,128,0,0,112) #1</th>
</tr>
</thead>
</table>
| gcm_encrypt_and_tag:"f57dd16fa92a8f8c09d8f13cb5b6633a43b8762e90c670232f5594c7df700c":128:"3b7e14ee3
a9c716e06a274d15a3595a0c41";

GCM NIST Validation (AES-256,128,0,1024,112) #2
gcm_encrypt_and_tag:"9143f00e31c72bd9fced31585d0476f71004e6244e3d9c108ae005f3eacab4";"e49cd6a9a2f0da2a7198317d4a2b2f";"ab9193a155140d26a94665aedd7ad3fa61a29498532bc7d7f09faa1a840702620b3ab53
d91b01262212f4a6f387b5c55adafcb9da83d4a5b066685826de309f4e1eb54d69b59259c54352a667b4b80f0e0c48311b521762eaa567744e4c4704dd9777480468b95d989a67e33cc65302b59360d600a22138e5ad33173f";"112:"8293e361fe0308a067f89aea393f";

GCM NIST Validation (AES-256,128,0,1024,104) #0
gcm_encrypt_and_tag:"d0ba180075c373116bb037907b51zadd00ba9a4693a8eccc14a0d79adada00e";"5c1501b19cee5404addcc9217ac8e2b8253b7";"3a161605c005c479dd4dca4ed5918f88b60fb7b7781c4e820128c704c3606a097f0e6e6e1c4f021e4d38dee512534b484ff23b701975bf50917146ccae9e3c9f8bbbeeb712cb64a9145e0d7e7a082b907776a387b58559a881b9b79b90a28ad1aac0f2b3ee3c16196279ee4c083897f77dd10ee29a8444e7c97f39b5f";"104:"0541262dddf5d01f0f3e3c2fb4";

GCM NIST Validation (AES-256,128,0,1024,104) #1
gcm_encrypt_and_tag:"c975ec7e59133c231d1b84c696766c413ba20aff7bd7854e6974e65db3cc57b4";"d8fededda4c0caf6b0818edcfa7b1f03fa";"cb44c9171367d6422abafab24452d267eb9ccf1c4c97d21a0125de486997832d16c7e412c109eb9ca98e81dfe1a1d97d971a4e91166b9479a07d4e996d549d9a70b3d493179ca05df44433df98c9499f1f1849ec88b5b8ebfddd387828632469d8b28df4451fc67f1af3d69526a80ce253e4fdee6300d27d97ba5f4";"96:"7ac205d959ec10a8e3ee13eed";

GCM NIST Validation (AES-256,128,0,1024,96) #0
gcm_encrypt_and_tag:"a86ec688222c50c0724ade2d2c8ae6f88325fe9f5d40a47538fd83224199327";"99c73f8bf97f225f7a17cf79e011112";"c5f570def357260f997f3a3ebfe0e071929d8dfb5f029e418998e85e671e186600c612ecedbbe3e847e580824796973373aad815dcd02639860db73a5dd2db4086bde69701d4bh8a0580a2c7343c56c6d70202a03494675539797252ddcd7646296932959c9979f74a0464532f64d3089df54bceeeaa4729a145380";"96:"c2093a74075e613b909eece13eed";

GCM NIST Validation (AES-256,128,0,1024,96) #2
gcm_encrypt_and_tag:"843696797c59ca73b6760b73c6e0888d1a4e767b1218ab471d8d49505ae47";"9401dd099891464566e06d518b3fe7d";"a5490906177417097c190a21dabb457a694e1731418373f695b09ebeb8sca2e28aace5e49275b6266da9369a9095b38998e64aafed468470e5a6e7172ac96e7b93f43c99f1f2c51ab66df95a9504503d7535212a2aeeb0e512df43759a527e4e4993892c727747339c913ea91580e7303676b8984e619d7f8888af789fed489b08eda2243275a5ee77cd7046385f48bf1fecefc1ab4f4afde69d1d8aba";"96:"db7be8c52e692e9a0e1a5c6";

GCM NIST Validation (AES-256,128,0,1024,96) #2
gcm_encrypt_and_tag:"843696797c59ca73b6760b73c6e0888d1a4e767b1218ab471d8d49505ae47";"9401dd099891464566e06d518b3fe7d";"a5490906177417097c190a21dabb457a694e1731418373f695b09ebeb8sca2e28aace5e49275b6266da9369a9095b38998e64aafed468470e5a6e7172ac96e7b93f43c99f1f2c51ab66df95a9504503d7535212a2aeeb0e512df43759a527e4e4993892c727747339c913ea91580e7303676b8984e619d7f8888af789fed489b08eda2243275a5ee77cd7046385f48bf1fecefc1ab4f4afde69d1d8aba";"96:"db7be8c52e692e9a0e1a5c6";

GCM NIST Validation (AES-256,128,0,1024,96) #2
gcm_encrypt_and_tag:"843696797c59ca73b6760b73c6e0888d1a4e767b1218ab471d8d49505ae47";"9401dd099891464566e06d518b3fe7d";"a5490906177417097c190a21dabb457a694e1731418373f695b09ebeb8sca2e28aace5e49275b6266da9369a9095b38998e64aafed468470e5a6e7172ac96e7b93f43c99f1f2c51ab66df95a9504503d7535212a2aeeb0e512df43759a527e4e4993892c727747339c913ea91580e7303676b8984e619d7f8888af789fed489b08eda2243275a5ee77cd7046385f48bf1fecefc1ab4f4afde69d1d8aba";"96:"db7be8c52e692e9a0e1a5c6";
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GCM NIST Validation (AES-256,128,0,1024,64) #0
gcm_encrypt_and_tag:"03e8efc1407bbf0d73afa5e010769b71e8649c429435dfc923ef9da054acaf":"":"74c6b98fc6c6a599b9d4c2fd1d71095":"467f483c71c3040fe7f09df6b56b64c3b7613a0dd32470c2f24bc590d3994a48f3e8ced5c2c19ea87d5366ad7c5ad3c1cc9612adfaeaa109d92a2e5f2a0d2b2c903dd1d1ca19947920a10baf371ba5a90ed7cb5f3dc9e5a4d8331f218e98763e7994b3e63705d41e4f332160b0b9791ff5f5eb9079832f9e0a4e9335885f453f2a81b9a750e54c01789792a371de136969d365a443cb8669e94735050849019790d1265b99e7b325383db302aa3e33590949a8761a3bb2aeb1ba798cdeeb0a53daa05a33389d419296d65116a84f12d5b830":"":"64:62fe088d9129450b"
65b4c3c07bc12a8f90613139b9a2b8d840829b876beb884f27d5a64093c270fe6c310ca3afe987b8c5ec4dc603585d5bf
77c7b4a4e40748e6d3ec28e9a28118da88949e478094e0606b";":769869a55754eb5d6d4232a2b25271b385333fc0c79
642e250347d34566eea732e05f680672054b1d0cbed3067730dce567039c730d8bc32a2bdaad09885651533a403317
4d4e6510547e1ed51be6070aboda0aceceacafc64a4d0e87c0311bd09973f588a4dfb39c85086ea5d67dc531c287b
83c161dcb25e07b671343f";":32";"c364c089";":0

GCM NIST Validation (AES-256,128,0,0,128) #0
gcm_encrypt_and_tag:"46156664ca747220df97ca1ab2f88b74189a634eb75217f04526923d30506949e";":546d821e
437371061cf3207f3d866c15";":128";"44193072791c435d6e8ea7756a0bd7bf":0

GCM NIST Validation (AES-256,128,0,0,128) #1
gcm_encrypt_and_tag:"7736dbb38f1e351a7f91a01d91da62124e22ac02e6b94153f66991067572f73";":50f1779e5
e4471cd95a59f108445eb5b";":128";"1a1f08c8f40b93e7b5a63008dff54777":0

GCM NIST Validation (AES-256,128,0,0,120) #0
gcm_encrypt_and_tag:"714df4b69dc00067c4ab550f37f772358b0a905deae20f00be28ceec130313c2";":c46d636faedad2cee03bd0333bc2e6478";":120";"2a0271b06668892d0b34e82bf17d8":0

GCM NIST Validation (AES-256,128,0,0,112) #0
gcm_encrypt_and_tag:"2948233eec9bf8adf7250b20d6d2f9219d30e314c593238320380f9f3d5cf";":d6b8e723272e26922b78756d66e03432";":112";"14e9a9a217a33d4c08e627641f":0

GCM NIST Validation (AES-256,128,0,0,112) #1
gcm_encrypt_and_tag:"c73fb5e732eb1de7c91ac25de0d01d427de12baf05f251c04d3290773c4d1";":c31220835b11d61920ae2c91e335907e";":112";"9eb18097d3e6b6b7d5e161ae4e96":0

GCM NIST Validation (AES-256,128,0,0,104) #0
gcm_encrypt_and_tag:"a6aaf2f12128258f14063b2587f17d47b9c93d3dbc6f6ef09000e99d36c8f8d66";":7cb550a20d958409739be8a5c72440f";":112";"8c76e11ac0f1d7f05a62c5f93d":0

GCM NIST Validation (AES-256,128,0,0,104) #1
gcm_encrypt_and_tag:"61a612c76de551f794a146962d913f04bd431365b711217aa4bea115f726";":2d5462c09aa92107329e5e99957";":104";"e4d3b277dc9a107c0392ca1e5b":0

GCM NIST Validation (AES-256,128,0,0,104) #1
gcm_encrypt_and_tag:"4b233480239fabd2035a7c9207a8e1ab2da45a90a472b30848fe4b4757e628db";":50d4509
4d581464c4bb23433699c418dce:

GCM NIST Validation (AES-256,128,0,1024,112) #2
gcm_encrypt_and_tag:"e2a395739669278f052ff2dfe658e17f2fe2381e23bf62a31a3938903764":"a6f5af1f1f1
ac77a1cb0f0d2d343252cbe":"ce9c268429ca9c35c958a3ce819335ec06166aaca00e15975ba6f9130251eaf4d54bc6c0fbed
76a8b44a5b947190c3d26e98788dd14a5a491a4a3d5478884050129354e59e407b53f76711585b0f6e66a276951d258
6baf3c711f8a982ca7c3ba4677a934898bd5117552ea032febd85cfeaebeb87e87168f7a2e8979608358ff841":"c5
d986df8e9761d5c2b579e69b1":0

GCM NIST Validation (AES-256,128,0,1024,104) #0
gcm_encrypt_and_tag:"2b17652f7f04073afe9f9e8bb2615c7505968b9776b139cc49b0300912cbdb":9a8ac23ea
74b292b73861386666af0b60":723720174e161361dd28d23337079d56dac18382e7af7c57160c57577268c52ae9
1f44ab3016af2764597994573cd6b41f7e212b0f6fb3baaf9478ac19d0f8e8d2ea2c7505ae5963b032d1ee1bf8b4e5b8
d88bb0ca350ba26ee3eb8deca1579553334e28c25ce73c493292df9f4400a72909f2870aea873a76545ee8":"f7
b94229439088142619a1a6be":0

GCM NIST Validation (AES-256,128,0,1024,104) #1
gcm_encrypt_and_tag:"16fe502e20d6473ced9a275696b63a768e6cd428758840cfebb37df510775804619":"431a8d78
b91414737c7e6188328a6d37":934bcacbc10e4af6e994b17b7d379b88489f123bf496c78e9b6b02ee97dd62eed0
58bf4f492176490129e71710162899f1a009efeb0c71a1a1b17ce9eb3cb0f2b00eefada310708dfe214428a184174
4523e66f2d62630d4a12fd3e36d26c3b7d1566553c9b434ed19d3b083160da1f241de190bcdb36f435e03f4":104:
1dd3e6d10f539cc4e98d36244:

GCM NIST Validation (AES-256,128,0,1024,96) #0
gcm_encrypt_and_tag:"eccc545fd33ccf17e27d75582db28807c972898f712d6ed4726da18d9ac76a":"ca2f5658
4a45942af1dfbfe4ad7f3e":e858ae6b72777893f61f30694af0b40f62a05a38eb36fc415e292761ca36fd39bf5687
a53e25ed1f49140f50e706da8719716504fced48c773ea5463808be667b562842e23685173ad9015a9449b1cdd0
b76978e6090a43a07bf1ae4e0b05d3878b0a0199e18e874f3b3a1777bba448cfb3f971593f9474f7ce9c8d":104:
5cf5c5ca66fbee63854f3bc15:

GCM NIST Validation (AES-256,128,0,1024,96) #2
gcm_encrypt_and_tag:"8340d604770c77e8e3d0fdd57031bf304c3bfeebf64f46e2d0e12ec19bbdcec":"e0a580465
b7be28344f795d658a5151":"799f22862e8f78656fca0addde7366de2e4a708292dbd570e50f7a7c74343458fd34
65103556a33bc5ce217b7bb5b2835c97976b72040b4d0f605bcafab6790d5985a8ba545340e625263c628e8746c451504fc
58a179f07f7f2b93d8dfb5582b031082025c8066e0143da9eb6133ace8367376d0572b32569ee799540ae":96:31
8f56bd0f3832d043ef700a0:

GCM NIST Validation (AES-256,128,0,1024,96) #1
gcm_encrypt_and_tag:"74de45262fe09e12e9ee7100030352112a6532d1874ce6792b4da6950677eb2a":"9f7fc736
79afdbb67df1aaffc9058e2a":289ac65f5beeebcbdec5b3b0fd4a27b32c73a3f27779747ed33a5f3d5f7e49f763de88e53
fd35561655c35469f3eef5b2f776f2799aab346522d3f030154e35f4ef075f016aaad50c76870e6659a59f6af17c9a8f5
b9e0416ed94686463cc4386a7442bb0c089a9ab84981313c0f4e4f0ba358293c9f49e6447f56a4b":96:be1bb9
4ff478d9e197551cd:

GCM NIST Validation (AES-256,128,0,1024,96) #2
gcm_encrypt_and_tag:"441ee8acefe6308050d0c9ee8bb200e59f5656a5ce19e5ef58241e6ef16cac7646b9":"a1cbeffaf5
5708c375dcefcb496b21f4e":5a6b5ad35f3a7a4b317c6c716564e48f0e6bc6b0f9a4e27affca6d5af04b7b1d3989b7a2c2b
42ce8edd710be70c04e0e40977ca1c2f536a076770383e737064bf0e233dd48bc0e0bde7f988f57141e164e3c18db81
e14f2de2c261469c38c3682e135802e0700fd19bf1fd2a06be7978096a194676fde7b7e96ed927362f656e63e682 9bce5111e4c4ada71e7b1ab8664e0f808b8200b6b04ec2bd0_"; "d5c557d94fffe4674d4c081e37e03926b541914a3 2ada2af02de258d68fa9eb1f15f6ef671877519a9e65b9egg69351450897ef7a05dd7ca0f846515fb8f1f4f2ce858da27 2ac23bcb83c53c542c282553a2b4ed3d7d4f4049ab1a13172739a046e0aaf2d9aee54b0e841416c634178354732df69d3 9e48c24eb3d9db21a9_"; "9a7ac79db94b27469b2343a":0

GCM NIST Validation (AES-128,128,128,1024,1024,64) #0
gcm_encrypt_and_tag:"9685aea9aa8ebdbd916e7977903472390306d5887be4e1cf09fd63e3a907ff3ece_"; "ae32bfa2e09 f72c1e76b1e6e215b766998b7d4ab51e624871580b7ab7a83e9d05ab26ebd4969522b522ca3497d365ca7ea270750d7d 7f1c78e1dd50333db78086bcb68948c383e97e171978898f32e9c423b07cc304a7d8f9f339869966b7ad941d645b74c47a3ca 0de952ee3fc7a8ad389b6da7ca0b2a0b1fe4f701fa3c7ba9ec5_"; "b1cb40531ae8c0692e2f784e0988038_"; "294ff858f abe6cf3a4e3bed05332b9b51a717da7bfa4b78472e1582b44313ec2e11793d98d6e188589d07878f90c8303ae3a8e3b3d8 2964ebc8b0c784505672922996f88d4766c7a77e2952930143d3a15752138506005985e7e4547b99b23 12404b66fe4aff97f820ba49919d2c9870cf0c286c784e7669d88fe8_"; "65751205756687b7309e325b3e617683b42ff7 7f6316e22906b0ca8a86b32c45376f34af353c33eda9f64ea4c9e177f9ab503f000c0d1703f3c8eb3913d7599c543778ba22 311111488092c42787f6facf42b861a824d1bced603a77d1125315206a929a3e16e8735d7080b8e5f0d1a89902626989 a9964d72e49187250472_"; "7f8c4dd37c06b19_"

GCM NIST Validation (AES-128,128,128,1024,1024,64) #0
gcm_encrypt_and_tag:"9685aea9aa8ebdbd916e7977903472390306d5887be4e1cf09fd63e3a907ff3ece_"; "ae32bfa2e09 f72c1e76b1e6e215b766998b7d4ab51e624871580b7ab7a83e9d05ab26ebd4969522b522ca3497d365ca7ea270750d7d 7f1c78e1dd50333db78086bcb68948c383e97e171978898f32e9c423b07cc304a7d8f9f339869966b7ad941d645b74c47a3ca 0de952ee3fc7a8ad389b6da7ca0b2a0b1fe4f701fa3c7ba9ec5_"; "b1cb40531ae8c0692e2f784e0988038_"; "294ff858f abe6cf3a4e3bed05332b9b51a717da7bfa4b78472e1582b44313ec2e11793d98d6e188589d07878f90c8303ae3a8e3b3d8 2964ebc8b0c784505672922996f88d4766c7a77e2952930143d3a15752138506005985e7e4547b99b23 12404b66fe4aff97f820ba49919d2c9870cf0c286c784e7669d88fe8_"; "65751205756687b7309e325b3e617683b42ff7 7f6316e22906b0ca8a86b32c45376f34af353c33eda9f64ea4c9e177f9ab503f000c0d1703f3c8eb3913d7599c543778ba22 311111488092c42787f6facf42b861a824d1bced603a77d1125315206a929a3e16e8735d7080b8e5f0d1a89902626989 a9964d72e49187250472_"; "7f8c4dd37c06b19_"

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1.712 service-identity 16.0.0-3.ph2

1.712.1 Available under license:

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1.713 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-b8defb9/LICENSE.rst

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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

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',
            'Programming Language :: Python :: 3.8',
            'Programming Language :: Python :: Implementation :: CPython',
            'Programming Language :: Python :: Implementation :: PyPy',
            'Topic :: Internet :: Name Service (DNS)',
        ]
    }
```

---
setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py

1.714 iproute 4.3.0-1ubuntu3.16.04.1

1.714.1 Available under license:

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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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Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
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Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcb0ox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Petel <peteladrien@gmail.com>
Acio Jinor <aacjiodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <spphprogger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
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David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@google.com>
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Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eno Compton <enocom@google.com>
Eoghan Sherry <ejsherry@gmail.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@gmail.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emiliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Erik Aigner <aigner.erik@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@gmail.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 7602

James Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
James Sweet <james.sweet88@googlemail.com>
James Toy <nil@opensesame.st>
James Treanor <jtreanor3@gmail.com>
James Tucker <raggi@google.com>
James Whitehead <jnwitheh@gmail.com>
Jamie Beverly <jamie.r.bevery@gmail.com>
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>
Jamie Kerr <jkerr113@googlemail.com>
Jamie Liu <jamieliu@gmail.com>
Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Lehnardt <jan@apache.org>
Jan Mercl <0xjnml@gmail.com> <befelemepeveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Pilzer <jan.pilzer@gmx.de>
Jan Steinke <jan.steinke@gmail.com>
Jan ZiaK <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jannis Andrija Schnitzer <jannis@schnitzer.im>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason A. Donenfeld <Jason@zx2c4.com>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jbuberel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delpontej@gmail.com>
Jason Hall <jasonhall@google.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wangsadinata <jwangsadinata@gmail.com>
Javier Kohen <jkohen@google.com>
Javier Revillas <jrevillas@massivedynamic.io>
Javier Segura <javism@gmail.com>
Jay Conrod <jayconrod@gmail.com>
Jay Taylor <outtatime@gmail.com>
Jay Weisskopf <jay@jayschwa.net>
Jean de Klerk <deklerk@gmail.com>
Jean-Andr Santoni <jean andre.santoni@gmail.com>
Jean-François Bustarret <jf@bustarret.com>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalvos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lannm@google.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@nmsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-fl.org>
Leigh McCulloch <leigmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonardo Comelli <leonardo.comelli@gmail.com>
Leoneıl Quinteros <leoneıl.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lm@cloudflare.com>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@google.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefole <luigi.riefole@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrakov <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 7611
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Sergey ‘SnakE’ Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synesis.ru>
Sergey Frolov <sfrolov@google.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shaozhen Ding <dsz0111@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
Shawn Elliott <selliott@microsoft.com>
Shawn Ledbetter <sledbetter@google.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengjing Zhu <zsj950618@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivani Singhal <shivani.singhal2804@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shubham Sharma <shubham.sha12@gmail.com>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@gmail.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <petrovic@gmail.com>
Sridhar Venkatakrishnan <sridhar@ladoo.net>
StalkR <stalkr@stalkr.net>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baebler <sbaebler@outbrain.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabanin <neverliberty@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stephan Zuercher <zuercher@gmail.com>
Stphane Travostino <stephane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen Ma <stephenm@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyyst@gmail.com>
Steve Mynott <steve.mynott@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeting <steve@stevestreeting.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syoei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad@tad.glines@gmail.com>
Tadas Valiukas <tados@gmail.com>
Tristan Rice <rice@fn.lc>
Troels Thomsen <troels@thomsen.io>
Trung Nguyen <trung.n.k@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuo@gmail.com>
Tyler Bui-Palsulich <tpalsulich@gmail.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Udalov Max <re.udalov@gmail.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangiparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Val Polouchkine <vpolouchkine@justin.tv>
Valentin Vidić <vvidic@valentin-vidic.from.hr>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturaev <vearutop@gmail.com>
Victor Chudnovsky <vchudnov@gmail.com>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@gmail.com>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vini Rajashekhar <vinutheraj@gmail.com>
Vish Subramanian <vish@gmail.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Viswesvara R <r.visweswara@gmail.com>
Vitor De Mario <vitordemario@gmail.com>
Vivek Sekhar <vsekhari@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Kovpak <cn007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotsky <vpaprots@ca.ibm.com>
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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.)

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a purpose that is entirely well-defined independent of the
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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
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distribute the source code, even though third parties are not
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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,
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Torsten Schnfeld
Tristan Van Berkom
Xan Lopez
Zachary Goldberg

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1.723 pycparser 2.14

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1.725 javax-ws-rs-api 2.0

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1.727 commons-codec 1.5

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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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  jar/jersey/repackaged/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
  jar/jersey/repackaged/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
  jar/jersey/repackaged/com/google/common/collection/MultimapBuilder.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
  jar/jersey/repackaged/com/google/common/collection/ImmutableMapEntry.java
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  jar/jersey/repackaged/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
  jar/jersey/repackaged/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
  jar/jersey/repackaged/com/google/common/io/CharSequenceReader.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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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-
jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableMap.java
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2.jar/jersey/repackaged/com/google/common/collection/BinaryTreeTraverser.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2.jar/jersey/repackaged/com/google/common/io/CharSource.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2.jar/jersey/repackaged/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2.jar/jersey/repackaged/com/google/common/collection/ForwardingNavigableSet.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2.jar/jersey/repackaged/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2.jar/jersey/repackaged/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2.jar/jersey/repackaged/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2.jar/jersey/repackaged/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2.jar/jersey/repackaged/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2.jar/jersey/repackaged/com/google/common/io/ByteSink.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2.jar/jersey/repackaged/com/google/common/collection/ForwardingNavigableMap.java
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collection/TreeRangeMap.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collection/TransformedIterator.java
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/hash/AbstractStreamingHashFunction.java
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/hash/Funnels.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collection/EmptyImmutableSortedMultiset.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/hash/Murmur3_32HashFunction.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/UnmodifiableListIterator.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collect/SortedMapDifference.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/AbstractSequentialIterator.java
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* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collection/ImmutableSortedSet.java
* /opt/cola/permits/1144928751_1620110729.66/0/jersey-guava-2-23-sources-2-jar/jersey/repackaged/com/google/common/collection/ImmutableEntry.java
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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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# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <myemail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@gmail.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Open Source Used In HyperFlex HX Data Platform 5.0(2a)

Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <spwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Heske <adrianheske@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <phpproger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agnives De Sarker <agnivade@yahoo.co.in>
Ahmed Wahed <oneofone@gmail.com>
Ahmet Alp Balkan <ahmetb@google.com>
Ahmet Soormally <ahmet@mangomm.co.uk>
Ahmy Yulrizka <yulrizka@gmail.com>
Ahsun Ahmed <ahmed.ahsun@gmail.com>
Aiden Scandella <ai@uber.com>
Ainar Garipov <gugl.zadolbal@gmail.com>
Aishraj Dahal <aishraj@users.noreply.github.com>
Akhil Indurthi <aindurthi@gmail.com>
Akihiro Suda <suda.kyoto@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Al Cutter <al@google.com>
Alan Braithwaite <alan@ipaddr.org>
Alan Donovan <adonovan@google.com>
Alan Shreve <alan@inconshreveable.com>
Albert Nigmatzianov <albertnigma@gmail.com>
Albert Strasheim <fullung@gmail.com>
Albert Teoh <albert.teoh@gmail.com>
Albert Yu <yukinying@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garcia Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>
Alec Benzer <alec.benzer@gmail.com>
Aleksa Sarai <cyphar@cyphar.com>
Aleksandar Dezelin <dezelin@gmail.com>
Aleksandr Lukinykh <a.lukinykh@xsolla.com>
Aleksandr Razumov <ar@cydev.ru>
Aleksev Artem <a.artem060@gmail.com>
James Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
James Sweet <james.sweet88@googlemail.com>
James Toy <nil@opensesame.st>
James Treanor <jtreanor3@gmail.com>
James Tucker <raggi@google.com>
James Whitehead <jnwhiteh@gmail.com>
Jamie Beverly <jamie.r.bevery@gmail.com>
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>
Jamie Kerr <jkerr113@googlemail.com>
Jamie Liu <jamieliu@gmail.com>
Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Lehnardt <jan@apache.org>
Jan Mercel <0xjnml@gmail.com> <befelemepeeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Pilzer <jan.pilzer@gmx.de>
Jan Steinke <jan.steinke@gmail.com>
Jan Ziai <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jannis Andrija Schnitzer <jannis@schnitzer.im>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason A. Donenfeld <Jason@zx2c4.com>
Jason Baker <jason-baker@users.noreply.githubusercontent.com>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jbuberel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delpontej@gmail.com>
Jason Hall <jasonhall@google.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wongsadinata <jwangsadinata@gmail.com>
Javier Kohen <jkohen@google.com>
Javier Revillas <jrevillas@massivedynamic.io>
Javier Segura <javig@gmail.com>
Jay Conrod <jayconrod@google.com>
Jay Taylor <outtatime@gmail.com>
Jay Weisskopf <jay@jayschwa.net>
Jean de Klerk <deklerk@google.com>
Jean-Andr Santoni <jean.andre.santoni@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.github.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhseu@google.com>
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>
Jonathan Nieder <jrn@google.com>
Jonathan Pentecost <pentecostjjonathan@gmail.com>
Jonathan Pittman <jmpittman@gmail.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jonathon Lacher <jonathon.lacher@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Liggitt <jliggitt@gmail.com>
Jordan Rhee <jordanrh@microsoft.com>
Jordi Martin <jordimartin@gmail.com>
Jorge Araya <jorgejavieran@yahoo.com.mx>
Jorge L. Fatta <jorge.fatta@auth0.com>
Jos Visser <josv@gmail.com>
Josa Gesell <josa@gesell.me>
Jose Luis Vzquez Gonzlez <josvazg@gmail.com>
Joseph Bonneau <jcb@gmail.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@gmail.com>
Josh Holland <jrh@joshh.co.uk>
Josh Roppo <joshropp@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jchouchase@gmail.com>
Joshua M. Clulow <josh.clulow@joyent.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselein Costanzi <Josselein@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@gmail.com>
JT Olds <jtolds@xnet5.com>
JT Olio <hello@jtolio.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebpereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Lorenz Brun <lorenz@brun.one>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <ruginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgarten <lucas.bremgarten@gmail.com>
Lucas Clemente <lclemente@gmail.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Rieplo <luigi.rieplio@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luke Young <bored-engineer@users.noreply.github.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lyleffranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@gmail.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <maiconcscosta@gmail.com>
Mak Kolybabi <mak@kolyabb.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishmail@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@gmail.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanniquel <marcsanniquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freiheit.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuennerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Glines <mark@glines.org>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@gmail.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@gmail.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam-Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic@google.com>
Sami Pnknen <sami.ponkanen@gmail.com>
Samuel Kelemen <SCKelemen@users.noreply.github.com>
Samual Tan <samueltan@gmail.com>
Samuele Pedroni <pedronis@lucediurna.net>
Sander van Harmelen <sander@vanharmelen.nl>
Sanjey Menakuru <balasanjay@gmail.com>
Santhosh Kumar Tekuri <santhosh.tekuri@gmail.com>
Sarah Adams <shadams@google.com>
Sardorbek Pulatov <sardorbek.pulatov@outlook.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@google.com>
Sasha Sobol <sasha@scaledinference.com>
Scott Barron <scott.barron@gmail.com>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Ragan <ragansa@fb.com>
Scott Schwartz <scott@golang.org>
Scott Van Woudenberg <scottvw@gmail.com>
Sean Burford <sburford@gmail.com>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <seane@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Liao <seankhiiao@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Chlopecki <sebsebme@gmail.com>
Sebastian Kinne <skinne@google.com>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Lemeshkin <sergeilem@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergei Zagurskii <gvozdoder@gmail.com>
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>
Song Gao <song@gao.io>
Spencer Kocot <spencerkocot@gmail.com>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@google.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@gmail.com>
Sridhar Venkatakrishnan <sridhar@ladoo.net>
Srinidhi Kaushik <srinidhi.kaushik@gmail.com>
StalkR <stalkr@stalkr.net>
Stan Schwerty <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baebler <sbaebler@outbrain.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stephan Shabalini <neverliberty@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stephan Zuercher <s zuercher@gmail.com>
Stphane Travostino <stephane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen Ma <stephenm@golang.org>
Stephen McQuay <stephen@mquay.me>
Stephen Searles <stephes2424@gmail.com>
Stephen Weinberg <stephen@qscomm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyyst@gmail.com>
Steve Mynott <steve.mynott@gmail.com>
Steve Newman <snorman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeting <steve@stevestreeting.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriya Sundararuban <suriyaasundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yves@yvesjunqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gershman <zachgersh@gmail.com>
Zach Jones <zachj1@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Gershman <zgershman@pivotal.io>
Zak <zrjknill@gmail.com>
Zakatell Kanda <hi@zkanda.io>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zheng Dayu <davidzheng23@gmail.com>
Zheng Xu <zheng.xu@arm.com>
Zhengyu He <hzy@google.com>
Zhongpeng Lin <zplin@uber.com>
Zhongtao Chen <chenzhongtao@126.com>
Zhongwei Yao <zhongwei.yao@arm.com>
Zhou Peng <p@ctriple.cn>
Ziad Hatahet <hatahet@gmail.com>
Ziheng Liu <ljzfromustc@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
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1.752 sshpass 1.05 1

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/**
 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
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* \{@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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/**
 * 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
 * the method's access flags (see [@link Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [@link 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
 * [ @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[]) ]

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* 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()}). May be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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*/
/**
 * Constructs a new @{link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. 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.
 */

Found in path(s):
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/package.html
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/package.html
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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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* version.
*
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/IincInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/CheckClassAdapter.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/CheckFieldAdapter.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/AnnotationWriter.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/InstructionAdapter.java

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1.763 libtext-charwidth-perl 0.04-7build5

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

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

typedef unsigned intnfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNRANDOM 0x0040
#define POLLRDNORM POLLRDNRANDOM
#define POLLWRDNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

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

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

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* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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$OpenBSD: LICENCE,v 1.20 2017/04/30 23:26:16 djm 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
/*
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 *
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#ifndef HAVE_WAITPID
#define _BSD_WAITPID_H
#endif

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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)) /* 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 */

1.771 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
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)"\n,io.netty.channel;version="[4.1,5)"\n,io.netty.handler.codec;io.netty.util;version="[4.1,5)"
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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/

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1.773 libogg 1.3.2-1

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1.774 d-bus 1.10.6

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org.eclipse.jetty.toolchain:jetty-schemas

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

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

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

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

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

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

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

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

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1.791 iputils 20121221-5ubuntu2

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

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

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

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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
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Library is used in it and that the Library and its use are covered by
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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
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
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uses the Library", as object code and/or source code, so that the
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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
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e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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

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

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

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

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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.

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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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1.796 jackson-mapper-asl 1.9.2
1.796.1 Available under license :

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1078377000_1597297561.19/0/jackson-mapper-asl-1-9-2-sources-1-
jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.797 jetty-io 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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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.
http://openjdk.java.net/legal/gplv2+ce.html

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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

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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:jettyschemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.799 slf4j-log4j 1.7.25
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1.801 swagger-jersey2-jaxrs 1.5.0

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---

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 */

/* OPENBSD ORIGINAL: sys/sys/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 POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020

#ifndef HAVE_POLL_H
#define HAVE_POLL_H
#endif

#define COMPAT_POLL_H

#endif /* !_COMPAT_POLL_H_ */

#define POLLPRI0x0002
#define POLLRD0x0040
#define POLLNORM0x0080
#define POLLWR0x0100

#endif /* !HAVE_POLL_H */
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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

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

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--- src/compat.h src/compat-inl.h ---

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`variables`: {
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'POLY1305_ASM',  
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'openssl/apps/lib/app_provider.c',
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'openssl/apps/lib/tlssrp_depr.c','
],
],
'defines': ['<@(openssl_defines_BSD-x86_64)]],
'include_dirs': [
  './include",
],
'cflags' : ['<@(openssl_cflags_BSD-x86_64)]],
'libraries': ['<@(openssl_ex_libs_BSD-x86_64)]],
'sources': ['<@(openssl_cli_srcs_BSD-x86_64)]],
}

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{
    'variables': {
        'openssl_sources': [
            'openssl/crypto/aes/aes_ebc.c',
            'openssl/crypto/aes/aes_misc.c',
            'openssl/crypto/bn/asm/x86_64-gcc.c',
            'openssl/crypto/bn/bn_add.c',
            'openssl/crypto/bn/bn_blind.c',
            'openssl/crypto/bn/bn_const.c',
            'openssl/crypto/bn/bn_conv.c',
            'openssl/crypto/bn/bn_ctx.c',
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            'openssl/crypto/bn/bn_exp.c',
            'openssl/crypto/bn/bn_exp2.c',
            'openssl/crypto/bn/bn_gcd.c',
            'openssl/crypto/bn/bn_gf2m.c',
            'openssl/crypto/bn/bn_intern.c',
            'openssl/crypto/bn/bn_kron.c',
            'openssl/crypto/bn/bn_lib.c',
            'openssl/crypto/bn/bn_mod.c',
            'openssl/crypto/bn/bn_mont.c',
            'openssl/crypto/bn/bn_mpi.c',
            'openssl/crypto/bn/bn_mul.c',
            'openssl/crypto/bn/bn_nist.c',
            'openssl/crypto/bn/bn_prime.c',
            'openssl/crypto/bn/bn_rand.c',
            'openssl/crypto/bn/bn_recp.c',
            'openssl/crypto/bn/bn_rsa_fips186_4.c',
            'openssl/crypto/bn/bn_shift.c',
            'openssl/crypto/bn/bn_sqrt.c',
            'openssl/crypto/bn/bn_sqrt.c',
            'openssl/crypto/bn/bn_word.c',
            'openssl/crypto/bn/rsaz_exp.c',
            'openssl/crypto/bn/rsaz_exp_x2.c',
            'openssl/crypto/buffer/buffer.c',
            'openssl/crypto/cmac/cmac.c',
            'openssl/crypto/des/des_enc.c',
            'openssl/crypto/des/des_dec.c',
            'openssl/crypto/des/des_init.c',
            'openssl/crypto/des/des_key.c',
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'openssl/crypto/dsa/dsa_ossl.c',
'openssl/crypto/dsa/dsa_sign.c',
'openssl/crypto/dsa/dsa_vrf.c',
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'openssl/crypto/ec/cd4f12Arch_64/f_impl64.c',
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'openssl/crypto/ec/cd4f12f_generic.c',
'openssl/crypto/ec/cd4f12scalar.c',
'openssl/crypto/ec/cd4f1225519.c',
'openssl/crypto/ec/cd4f12oct.c',
'openssl/crypto/ec/cd4f12smpl.c',
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'openssl/crypto/ec/cd4f12oct.c',
'openssl/crypto/ec/cd4f12edcesa.c',
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'openssl/crypto/ec/ecx_backend.c',
'openssl/crypto/ec/ecx_key.c',
'openssl/crypto/evp/asymcipher.c',
'openssl/crypto/evp/dh_support.c',
'openssl/crypto/evp/digest.c',
'openssl/crypto/evp/ec_support.c',
'openssl/crypto/evp/ecv_enc.c',
'openssl/crypto/evp/ecv_fetch.c',
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'openssl/crypto/evp/ecv_rand.c',
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'openssl/crypto/evp/exchange.c',
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'openssl/crypto/evp/kdf_meth.c',
'openssl/crypto/evp/kem.c',
'openssl/crypto/evp/keymgmt_lib.c',
'openssl/crypto/evp/keymgmt_meth.c',
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'openssl/crypto/evp/mac_lib.c',
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'openssl/crypto/evp/p_lib.c',
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'openssl/crypto/evp/pmeth_gn.c',
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'openssl/crypto/params_from_text.c',
'openssl/crypto/provider_core.c',
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'openssl/crypto/rsa_acvp_test_params.c',
'openssl/crypto/rsa_backend.c',
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'openssl/crypto/rsa_mp_names.c',
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'openssl/crypto/rsa_sp800_56b_gen.c',
'openssl/crypto/sha/sha1dgst.c',
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'openssl/crypto/sha/sha3.c',
'openssl/crypto/sha/sha512.c',

'openssl/providers/implementations/keymgmt/dsa_kmgmt.c',
'openssl/providers/implementations/keymgmt/ec_kmgmt.c',
'openssl/providers/implementations/keymgmt/ecx_kmgmt.c',
'openssl/providers/implementations/keymgmt/kdf_legacy_kmgmt.c',
'openssl/providers/implementations/keymgmt/mac Legacy_kmgmt.c',
'openssl/providers/implementations/keymgmt/rsa_kmgmt.c',
'openssl/providers/implementations/macs/cmac_prov.c',
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'openssl/providers/implementations/macs/hmac_prov.c',
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'openssl/providers/implementations/rands/drbg_hash.c',
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'openssl/providers/implementations/signature/dsa_sig.c',
'openssl/providers/implementations/signature/eddsa_sig.c',
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'openssl/providers/implementations/signature/mac Legacy_sig.c',
'openssl/providers/implementations/signature/rsa Sig.c',
'openssl/ss/s3_cbc.c',
'openssl/providers/common/der/der_dsa_key.c',
'openssl/providers/common/der/der_ec_key.c',
'openssl/providers/common/der/der_ecx_key.c',
'openssl/providers/common/der/der_rsa_key.c',
'openssl/providers/common/provider_ctx.c',
'openssl/providers/common/provider_err.c',
'openssl/providers/implementations/ciphers/ciphercommon.c',
'openssl/providers/implementations/ciphers/ciphercommon_block.c',
'openssl/providers/implementations/ciphers/ciphercommon_ccm.c',
'openssl/providers/implementations/ciphers/ciphercommon_ccm_hw.c',
'openssl/providers/implementations/ciphers/ciphercommon_gcm.c',
'openssl/providers/implementations/ciphers/ciphercommon_gcm_hw.c',
'openssl/providers/implementations/digests/digestcommon.c',
'openssl/ssl/record/tls_pad.c',
'openssl/providers/fips/fips_entry.c',

'],
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'./config/archs/bsd-x86_64/asm_avx2/crypto/aes/aes-x86_64.s',
'./config/archs/bsd-x86_64/asm_avx2/crypto/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/aesni_sha256-x86_64.s',
'./config/archs/bsd-x86_64/asm_avx2/crypto/aesni_x86_64.s',
]
'OPENSSL_BUILDING_OPENSSL',
'AES_ASM',
'BSAES_ASM',
'ECP_NIST256_ASM',
'FIPS_MODULE',
'GHASH_ASM',
'KECCAK1600_ASM',
'OPENSSL_BN_ASM_GF2m',
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_MONT5',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
'SHA1_ASM',
'SHA256_ASM',
'SHA512_ASM',
'VPAES_ASM',
'X25519_ASM',
'FIPS_MODULE',
],
'openssl_cflags_BSD-x86_64': [
'-Wa,--noexecstack',
'-Wall -O3',
'-pthread',
'-Wall -O3',
],
'openssl_ex_libs_BSD-x86_64': [
'-pthread',
],
'linker_script': "
],
'include_dirs': [
',
'./include',
'./crypto',
'./crypto/include/internal',
'./providers/common/include',
],
'defines': ['@\(openssl_defines_BSD-x86_64\)'],
'cflags': ['@\(openssl_cflags_BSD-x86_64\)'],
'libraries': ['@\(openssl_ex_libs_BSD-x86_64\)'],
'sources': ['@\(openssl_sources\)', '@\(openssl_sources_BSD-x86_64\)'],
'direct_dependent_settings': {
'include_dirs': ['./include', '.'],
'defines': ['@\(openssl_defines_BSD-x86_64\)'],
]
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Tim Koschtkzi (tim@debuggable.com)
Felix Geisendrffer (felix@debuggable.com)

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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_srp.c',
    'openssl/ssl/methods.c',
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    'openssl/ssl/s3_enc.c',
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'openssl/crypto/asn1/a_digest.c',
'openssl/crypto/asn1/a_dup.c',
'openssl/crypto/asn1/a_gentm.c',
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'openssl/crypto/asn1/a_octet.c',

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openssl/crypto/asn1/a_print.c,
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openssl/crypto/asn1/f_string.c,
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openssl/crypto/pkcs7/pk7_smime.c,
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openssl/providers/implementations/rands/drbg.c,
openssl/providers/implementations/rands/drbg_ctr.c,
openssl/providers/implementations/rands/drbg_hash.c,
openssl/providers/implementations/rands/drbg_hmac.c,
Open Source Used in HyperFlex HX Data Platform 5.0(2a)

- openssl/providers/implementations/ciphers/cipher_rc4_hmac_md5.c'
- openssl/providers/implementations/ciphers/cipher_rc4_hmac_md5_hw.c'
- openssl/providers/implementations/ciphers/cipher_rc4_hw.c'
- openssl/providers/implementations/ciphers/cipher_seed.c'
- openssl/providers/implementations/ciphers/cipher_seed_hw.c'
- openssl/providers/implementations/ciphers/cipher_tdes_common.c'
- openssl/providers/implementations/digests/md4_prov.c'
- openssl/providers/implementations/digests/mdc2_prov.c'
- openssl/providers/implementations/digests/ripemd_prov.c'
- openssl/providers/implementations/digests/wp_prov.c'
- openssl/providers/implementations/kdfs/pbkdf1.c'
- openssl/providers/prov_running.c'
- openssl/providers/legacyprov.c'

openssl_sources_BSD-x86: [
- ./config/archs/BSD-x86/asm_avx2/crypto/aes/aes-586.s'
- ./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-mont.s'
- ./config/archs/BSD-x86/asm_avx2/crypto/camellia/camll-x86.s'
- ./config/archs/BSD-x86/asm_avx2/crypto/chacha/chacha-x86.s'
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- ./config/archs/BSD-x86/asm_avx2/crypto/rc4/rc4-586.s'
- ./config/archs/BSD-x86/asm_avx2/crypto/ripemd/ripemd-586.s'
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'AES_ASM',
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'ECP_NISTZ256_ASM',
'GHASH_ASM',
'MD5_ASM',
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'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_PART_WORDS',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
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 './crypto',
 './crypto/include/internal',
]
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6. Google double-conversion

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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.

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'./config/archs/BSD-x86/asm/engines/e_padlock-x86.s',
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'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
'PADLOCK_ASM',
'POLY1305_ASM',
'RMD160_ASM',
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'-Wa,--noexecstack',
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'-pthread',
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openssl/crypto/stack/stack.c,
openssl/providers/common/der/der_rsa_sig.c,
openssl/providers/common/bio_prov.c,
openssl/providers/common/capabilities.c,
openssl/providers/common/digest_to_nid.c,
openssl/providers/common/provider_seeding.c,
openssl/providers/common/provider_util.c,
openssl/providers/common/securitycheck.c,
openssl/providers/common/securitycheck_fips.c,
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openssl/providers/implementations/digests/ripemd_prov.c,
openssl/providers/implementations/digests/wp_prov.c,
openssl/providers/implementations/kdfs/pbkdf1.c,
openssl/providers/prov_running.c,
openssl/providers/legacyprov.c,
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openssl_sources_BSD-x86_64: [
 './config/archs/BSD-x86_64/no-asm/providers/common/der/der_sm2_gen.c',
 './config/archs/BSD-x86_64/no-asm/providers/common/der/der_digests_gen.c',
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 'L_ENDIAN',
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 'OPENSSL_PIC',
]
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 '-pthread',
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    OSSL_provider_init;
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};
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openssl/crypto/cms/cms_io.c,
openssl/crypto/cms/cms_kari.c,
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openssl/crypto/cms/cms_pwri.c,
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openssl/crypto/conf/conf_def.c,
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'openssl/crypto/modes/ofb128.c',
'openssl/crypto/modes/siv128.c',
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'openssl/crypto/store/store_register.c',
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'openssl/crypto/ts/ts_asn1.c',

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'openssl/crypto/ts/ts_conf.c',
'openssl/crypto/ts/ts_err.c',
'openssl/crypto/ts/ts_lib.c',
'openssl/crypto/ts/ts_req_print.c',
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'openssl/crypto/x509/v3_genn.c',
'openssl/crypto/x509/v3_iat5.c',
'openssl/crypto/x509/v3_info.c',
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'openssl/crypto/x509/v3_ncons.c',

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'openssl/providers/implementations/ciphers/cipher_blowfish.c',
'openssl/providers/implementations/ciphers/cipher_blowfish_hw.c',
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'openssl/providers/implementations/kdfs/pbkdf1.c',
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'./config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha1-x86_64.s',
'./config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha256-x86_64.s',
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'./config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont.s',
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'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_MONT5',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
'PADLOCK_ASM',
'POLY1305_ASM',
'SHA1_ASM',
'SHA256_ASM',
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'VPAES_ASM',
'WHIRLPOOL_ASM',
'X25519_ASM',
'OPENSSL_PIC',
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' -pthread',
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'openssl_ex_libs_BSD-x86_64': [
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' ./include',
' ./crypto',
' ./crypto/include/internal',
' ./providers/common/include',
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'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)]',
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'openssl/crypto/bn/bn_exp.c',
'openssl/crypto/bn/bn_exp2.c',
'openssl/crypto/bn/bn_gcd.c',
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'openssl/crypto/cmac/cmac.c',
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'openssl/crypto/modes/ofb128.c',
'openssl/crypto/modes/wrap128.c',
'openssl/crypto/modes/xts128.c',
'openssl/crypto/property/defn_cache.c',

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 8652
'openssl/ssl/s3_cbc.c',
'openssl/providers/common/der/der_dsa_key.c',
'openssl/providers/common/der/der_dsa_sig.c',
'openssl/providers/common/der/der_ec_key.c',
'openssl/providers/common/der/der_ec_signature.c',
'openssl/providers/common/der/der_ec_keyx.c',
'openssl/providers/common/der/der_rsa_key.c',
'openssl/providers/common/provider_ctx.c',
'openssl/providers/common/provider_err.c',
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'openssl/providers/implementations/ciphers/ciphercommon_block.c',
'openssl/providers/implementations/ciphers/ciphercommon_ccm.c',
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'openssl/providers/implementations/ciphers/ciphercommon_gcm.c',
'openssl/providers/implementations/ciphers/ciphercommon_gcm_hw.c',
'openssl/providers/implementations/digests/digestcommon.c',
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'./config/archs/BSD-x86/asm/crypto/aes/aesni-x86.s',
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'./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',
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'./config/archs/BSD-x86/asm/providers/common/der/der_digests_gen.c',
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.'/config/archs/BSD-x86/asm/providers/common/der/der_dsa_gen.c',
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'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_PART_WORDS',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
'SHA1_ASM',
'SHA256_ASM',
'SHA512_ASM',
'VPAES_ASM',
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'linker_script': ''
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'include_dirs': [
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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
=======================================================================
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        'openssl/ssl/statem/extensions.c',
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'openssl/crypto/rc2/rc2_skey.c',
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'openssl/crypto/x509/x509rset.c',
'openssl/crypto/x509/x509spki.c',
'openssl/crypto/x509/x509type.c',

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openssl/providers/common/der/der_rsa_key.c,
openssl/providers/common/provider_ctx.c,
openssl/providers/common/provider_err.c,
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openssl/providers/implementations/ciphers/ciphercommon_hw.c,
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openssl/crypto/bn/rsaz_exp.c,
openssl/crypto/bn/rsaz_exp_x2.c,
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openssl/crypto/md5/md5_dgst.c,
openssl/crypto/md5/md5_one.c,
openssl/crypto/md5/md5_sha1.c,
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openssl/providers/implementations/ciphers/cipher_tdes_common.c,
openssl/providers/implementations/digests/md4_prov.c,
openssl/providers/implementations/digests/mdc2_prov.c,
openssl/providers/implementations/digests/ripemd_prov.c,
openssl/providers/implementations/digests/wp_prov.c,
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./config/archs/BSD-x86_64/asm/crypto/aes/aes-x86_64.s',
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'./config/archs/BSD-x86_64/asm/providers/legacy.ld',
'./config/archs/BSD-x86_64/asm/providers/fips.ld',

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'openssl_defines_BSD-x86_64': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_BUILDING_OPENSSL',
    'AES_ASM',
    'BSAES_ASM',
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    'ECPP_NISTZ256_ASM',
    'GHASH_ASM',
    'KECCAK1600_ASM',
    'MD5_ASM',
    'OPENSSL_BN_ASM_GF2m',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_MONT5',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_IA32_SSE2',
    'PADLOCK_ASM',
    'POLY1305_ASM',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'VPAES_ASM',
    'WHIRLPOOL_ASM',
    'X25519_ASM',
    'OPENSSL_PIC',
],
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],
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],
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],
'include_dirs': [
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    './include',
    './crypto',
    './crypto/include/internal',
    './providers/common/include',
],
'defines': ['<@openssl_defines_BSD-x86_64>'],
'cflags': ['<@openssl_cflags_BSD-x86_64>'],
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'sources': ['<@openssl_sources>', '<@openssl_sources_BSD-x86_64>'],
1.817 tiger-types 1.4

1.817.1 Available under license:

<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
<meta name="HandheldFriendly" content="true" />
<link rel="shortlink" href="/node/47" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<link rel="canonical" href="/licenses/CDDL-1.0" />
<meta name="MobileOptimized" content="width" />
<title>Common Development and Distribution License (CDDL-1.0) | Open Source Initiative</title>
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-fncB6ztZfd2huxgxn4WQ-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_lPgCuu6wEwSDhUqyxUkHLI7QnU.css" media="all" />
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<link type="text/css" rel="stylesheet" href="/maxcdn.bootstrapcdn.com/font-awesome/3.2.0/css/font-awesome.min.css" media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-3V9FM4wZ-5UDcpJ7Vzmt45E.css" media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWkUzFCF4.css" media="all" />

<!--[if (lt IE 9)]>
<link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-business/css/ie8.css?ol0qr1" media="all" />
<![endif]-->

<!-- HTML5 element support for IE6-8 -->
<!--[if lt IE 9]>
<script src="/html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]->
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function myFunction() {
    var x;
    if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it does not endorse any content, contributors or license interpretations from these websites. Any links to these resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor any of the mentioned resources, but instead provides them as separate third-party resource to help inform your opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
        x = "\n<p>The following are other community resources that may be helpful:\n<br>a href=https://tldrlegal.com/license/common-development-and-distribution-license-%28cddl-1.0%29-explained style='font-weight: bold;'>Common Development and Distribution License (CDDL-1.0) on TLDRLegal<br>a href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br>a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License List<br>a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br>a href=choosealicense.com>Choosealicense";
    } else {
        x = " ";
    }
    document.getElementById("demo").innerHTML = x;
}
//--><![]><![CDATA[ // -->

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Version 1.0 (CDDL-1.0)
(\a href="cddl1.txt">text</a>)
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* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
  jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
  jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
  jar/io/netty/handler/codec/MessageAggregator.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
  jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
  jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/DecoderException.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1258120979_1643033043.10/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java

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* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/compression/Lz4XXHash32.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>
 * <p>
 * The value of the length field in this example is 12 (0x0C) which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.
 */

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* <b>lengthFieldOffset</b>   = <b>0</b>  
* <b>lengthFieldLength</b>   = <b>2</b>  
* lengthAdjustment   = 0  
* initialBytesToStrip = 0 (= do not strip header)  

* 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" |      | 0x000E | "HELLO, WORLD" |
  +--------+----------------+      +--------+----------------+
  </pre>

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
  +----------+----------+----------------+      +----------+----------+----------------+
  | Header 1 | Length  | Actual Content |----->| Header 1 | Length  | Actual Content |
  | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
  +----------+----------+----------------+      +----------+----------+----------------+
  </pre>

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
  +----------+----------+----------------+      +----------+----------+----------------+
  | Length  | Header 1 | Actual Content |----->| Length  | Header 1 | Actual Content |
  | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
  +----------+----------+----------------+      +----------+----------+----------------+
  </pre>

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
  +----------+----------+----------------+      +----------+----------+----------------+
  | Length  | Header 1 | Actual Content |----->| Length  | Header 1 | Actual Content |
  | 0x000000C | 0xCAFE | "HELLO, WORLD" |      | 0x000000C | 0xCAFE | "HELLO, WORLD" |
  +----------+----------+----------------+      +----------+----------+----------------+
  </pre>

* BEFORE DECODE (20 bytes) AFTER DECODE (20 bytes)
  +----------+----------+----------------+      +----------+----------+----------------+
  | Length  | Header 1 | Actual Content |----->| Length  | Header 1 | Actual Content |
  | 0x000000C | 0xCAFE | "HELLO, WORLD" |      | 0x000000C | 0xCAFE | "HELLO, WORLD" |
  +----------+----------+----------------+      +----------+----------+----------------+
  </pre>
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 lengthFieldOffset and the extra header affects the lengthAdjustment. We also specified a non-zero initialBytesToStrip 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 0 for initialBytesToSkip.

```java
lengthFieldOffset = 1 (the length of HDR1)
lengthFieldLength = 2
lengthAdjustment = 1 (the length of HDR2)
initialBytesToStrip = 3 (the length of HDR1 + LEN)
```

**BEFORE DECODE (16 bytes)**

```
+------+--------+------+----------------+
| HDR1 | Length | HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |
+------+--------+------+----------------+
```

**AFTER DECODE (13 bytes)**

```
+------+----------------+
| HDR2 | Actual Content |
| 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 lengthAdjustment.

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.

```java
lengthFieldOffset = 1
lengthFieldLength = 2
lengthAdjustment = -3 (the length of HDR1 + LEN, negative)
initialBytesToStrip = 3
```

**BEFORE DECODE (16 bytes)**

```
+------+--------+------+----------------+
| HDR1 | Length | HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |
+------+--------+------+----------------+
```

**AFTER DECODE (13 bytes)**

```
+------+----------------+
| HDR2 | Actual Content |
| 0xFE | "HELLO, WORLD" |
+------+----------------+
```

@see LengthFieldPrepender

Found in path(s):

```
/opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources.jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
```
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jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
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 */

/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables 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>.
 * */

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* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java

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* /opt/cola/permits/1258120979_1643033043.1/jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1258120979_1643033043.1/jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/1258120979_1643033043.1/jar/io/netty/handler/codec/CharSequenceValueConverter.java

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* /opt/cola/permits/1258120979_1643033043.1/jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1258120979_1643033043.1/jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1258120979_1643033043.1/jar/io/netty/handler/codec/DefaultHeaders.java

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* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1258120979_1643033043.1/0/netty-codec-4-1-50-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
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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>
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jar/io/netty/handler/codec/base64/Base64.java

1.822 rsync 3.1.1 3ubuntu1.3
1.822.1 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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on Debian systems, or at

http://www.fsf.org/licensing/licenses/gpl.html

1.823 python-setuptools 20.7.0-1

1.823.1 Available under license :

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

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.

.. _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
Developer's Guide

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.

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`. Post-release 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 `2.4c1` 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```, ```1.9a0dev```, ```1.9a0dev```, and even ```1.9a.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:

```
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:

```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:

```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`. 

---

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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:

```
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:

```
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::

```
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.

Setup tools 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.::

```
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setup tools 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:

```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'],
    }
)
```

_Open Source Used In HyperFlex HX Data Platform 5.0(2a) 8760_
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 `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 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::

    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 the 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 setupools 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 into 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']}
)
```

```python
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 `setuptools`-based project
=========================================

```
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 project's `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
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__`, `__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:

```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
```

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.

---

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 8777
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`` - 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
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
```

Options:

```python
setup.py alias --global-config daily egg_info --tag-svn-revision \ 
   --tag-build=development
```
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
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
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:

```
--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.

`--tag-svn-revision, -r`
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.

`--no-svn-revision, -R`
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`.

`--tag-date, -d`
Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.

`--no-date, -D`
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:

``--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
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::

    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
**Example 2**. Remove any setting for the distutils default package installation directory (short option names):

```python
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` object) 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` in `distutils`.

Setuptools augments the `upload` command with support for `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 setup.py upload --keyring
```
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 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.:

```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` 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 = '
'.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 `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_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.

# 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/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
==================================

.. 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.
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`

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 `%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 `*.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::

```
> 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:

```bash
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
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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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 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ForwardingImmutableMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/TransformedListIterator.java
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jar/com/google/common/reflect/AbstractInvocationHandler.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/RegularImmutableAsList.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ForwardingImmutableSet.java
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jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/cache/package-info.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/ForwardingCheckedFuture.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/FutureCallbackTask.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/Reflection.java

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  jar/com/google/common/cache/Weigher.java
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  jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  jar/com/google/common/collect/Count.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  jar/com/google/common/collect/ImmutableSortedMultiset.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/primitives/BytesFauxverideShimFauxotherShim.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/primitives/BytesOtherShim.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/primitives/BytesOtherShimFauxotherShim.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/primitives/BytesOtherShim.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/primitives/Bytes.java
jar/com/google/common/collection/ImmutableMultimap.java
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jar/com/google/common/collection/Tables.java
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* /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
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/RowSortedTable.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
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ForwardingSetMultimap.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/hash/AbstractStreamingHashFunction.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/hash/Hashing.java
jar/com/google/common/collect/BoundType.java
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* /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/hash/HashFunction.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/collect/RegularContiguousSet.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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jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/collect/Queues.java
* /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/hash/HashingOutputStream.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
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jar/com/google/common/collect/DenseImmutableTable.java
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jar/com/google/common/collect/MapMaker.java
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jar/com/google/common/collect/Cut.java
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jar/com/google/common/collect/SparseImmutableTable.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableRangeMap.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
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In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you 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.

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

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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 possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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) 19yy 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 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
```

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

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

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

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

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

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.>
Copyright (C) <year> <name of author>

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

That's all there is to it!

1.833 libxcursor 1:1.1.14-1
1.833.1 Available under license:

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1.834 go-jmespath

c2b33e8439af944379acbdd9c3a5fe0bc44bd8a

5

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5.err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
```
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
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
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lib/libgss/g_rel_name.c
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lib/libgss/g_sign.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in the following files:

- `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_negotiate.c`
- `lib/gssapi/mechglue/g_server_accept.c`
- `lib/gssapi/mechglue/g_spnego.c`
- `lib/gssapi/mechglue/g_spnego_client.c`
- `lib/gssapi/mechglue/g_spnego_stuff.c`
- `lib/gssapi/mechglue/g_spnego_server.c`
- `lib/gssapi/mechglue/g_spnego_use.c`
- `lib/gssapi/mechglue/g_spnego征求意见.c`
- `lib/gssapi/mechglue/g_spnego_server.use.c`
- `lib/gssapi/mechglue/g_spnego_client.use.c`
- `lib/gssapi/mechglue/g_spnego_use.use.c`
and the initial implementation of incremental propagation, including
the following new or changed files:

```python
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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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
   lib/gssapi/mechglue/gssd_pname_to_uid.c
   lib/gssapi/mechglue/mglueP.h
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.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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```python
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:
        if not in_comment:
            in_comment = True
        if line != '' and line != '-':
            code_seen = True
            nonlicense_seen = True
            break
        m = re.match(r'\*/\*', line)
        if m:
            in_comment = False
            code_seen = False
            nonlicense_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())
    else:
        (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
    if line.strip() != '':
        code_seen = True
        ln += 1
for fname in sys.argv[1:] if len(sys.argv) > 1 else []:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
.. _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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lib/gssapi/mechglue/g_compare_name.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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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.851 jersey-test-framework-provider-grizzly2

2.22.2

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1.853 sharutils 4.15.2 1ubuntu0.1

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This is the Debian sharutils package. It was first put together by Bill Mitchell <mitchell@mdd.comm.mot.com> and it is currently maintained by Santiago Vila <sanvila@debian.org>.

Source code was downloaded from:

http://ftp.gnu.org/gnu/sharutils/sharutils-4.15.2.tar.xz

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

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

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

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

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

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

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

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

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

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

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

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  * 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>
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  * Correct six.moves conflict
  * Fixed pickle support of some exceptions
* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification
* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.
* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL
* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition
* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support
* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields
* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters
* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts
* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire
* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality
* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module
* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors
* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations
* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

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

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

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

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

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

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

* Evgeny Kapun <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@jesse.shapiro.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 <moinl18@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]

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1.862 jackson-dataformat-xml 2.9.8

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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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1.863 libunwind 1.1-4.1

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1.865 mgo r2020.11.24
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file_io/unix/mktemp.c, strings/apr_strings.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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The following was received February 23, 2000 From: "Linn, John" February 19,
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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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### 1.880 guice 4.0

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1.881 swagger 1.5.10
1.881.1 Available under license:

2name()Ljava/lang/String;urlAnnotationDefault
SourceFileLicense.javaRuntimeVisibleAnnotationsLjava/lang/annotation/Target;value"Ljava/lang/annotation/ElementType;ANNOTATION_TYPE
Ljava/lang/annotation/Retention;&Ljava/lang/annotation/RetentionPolicy;RUNTIMEio/swagger/annotations/License
java/lang/Objectjava/lang/annotation/Annotation&
**1.882 libxmu 1.1.2-2**

**1.882.1 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
+
+ * 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
+ 
+ * 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 Upheaders.
+ * 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
+
+ -- 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 Uploaders
+ * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
+ libxmluu1-dbg (Closes: #594500). Thanks to Luca Falavigna for the report.
+
+ [ Cyril Brulebois ]
+ * Add myself to 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.
+  * libxmlu6{,-dbg}, libxmlu-dev, libxmluu1{,-dbg} and libxmluu-dev don't need a
+ dependency on x11-common.
+ * Build libxmlu-headers in binary-indep instead of binary-arch
+  (closes: #486418). Thanks, Martin Koepp!
+ * 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

* 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 uploaders, and remove Branden and Fabio with their
  permission.
* Bump Standards-Version to 3.7.3 (no changes).
* s/^XS-Vcs/Vcs/

[ Julien Cristau ]
* 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;
isempotency 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
+ properly. Thanks Drew Parsons and Steve Langasek.
+ 
+ -- David Nusinow <dnusinow@debian.org>  Tue, 18 Apr 2006 21:49:59 -0400
+ 
+libxmu (1:1.0.1-2) unstable; urgency=low
+ 
+ * Upload to unstable
+ 
+ -- David Nusinow <dnusinow@debian.org>  Thu, 23 Mar 2006 22:44:59 -0500
+ 
+libxmu (1:1.0.1-1) experimental; urgency=low
+ 
+ * First upload to Debian
+ 
+ -- David Nusinow <dnusinow@debian.org>  Thu, 29 Dec 2005 20:53:53 -0500
+ 
+libxmu (1:6.2.3-5) breezy; urgency=low
+ 
+ * Also, libxmu-dev needs to depend on libxt-dev too.
+ 
+ -- Adam Conrad <adconrad@ubuntu.com>  Mon, 25 Jul 2005 09:43:47 +0000
+ 
+libxmu (1:6.2.3-4) breezy; urgency=low
+ 
+ * Bump libxt-dev build-dep once more, _XOPEN_SOURCE begone!
+ 
+ -- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 10:48:14 +0000
+ 
+libxmu (1:6.2.3-3) breezy; urgency=low
+ 
+ * Make libxmu-dev depend on libxext-dev, since libxmu links to it.
+ 
+ -- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 07:56:02 +0000
+ 
+libxmu (1:6.2.3-2) breezy; urgency=low
+ 
+ * Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid
+ _XOPEN_SOURCE.
libxmu (1:6.2.3-1) breezy; urgency=low

* First libxmu release.

libxmu-1.1.2.orig/debian/compat
@@ -0,0 +1 @@
+9
libxmu-1.1.2/debian/compat
@@ -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-autoconf,
+ libx11-dev (>= 1:0.99.2),
+ libxt-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/xlib/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. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ 
+ 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/xlib/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. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ 
+ 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/xlib/libXmu
+
+ Package: libxmuu1
+ Section: libs
libXmuuu 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.

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: libxmuuu1-dbg
+ Section: debug
+ Architecture: any
+ Multi-Arch: same
+ Priority: extra
+ Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuuu1 (= ${binary:Version})
+ Description: X11 miscellaneous micro-utility library (debug package)

This package contains the debug versions of the library found in libxmuuu1. 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: libxmuuu-dev
+ Section: libdevel
+ Architecture: any
+ Multi-Arch: same
+ Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuuu1 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+ Description: X11 miscellaneous micro-utility library (development headers)

This package contains the development headers for the library found in libxmuuu1. 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 @@
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+
+---------
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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/*
+usr/share/doc/libxmu-headers
--- 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 +1,3 @@
+usr/lib/*/libXmuu.so.1*
+usr/lib/*/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
+@@ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmu
+ Description: Xmu Library
+ Version: @PACKAGE_VERSION@
+ Requires: xproto x11 xt

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+ + Requires: xproto xt
+ + Requires.private: x11 xt xext
+ + Cflags: -I${includedir}
+ + Libs: -L${libdir} -lXmu
+ + Requires.private: x11 xt xext
+ + Cflags: -I${includedir}
+ + Libs: -L${libdir} -lXmu
+ + Requires: xproto 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@
+ + Requires: xproto x11
+ + Requires.private: xproto
+ + Requires.private: x11 xt xext
+ + Cflags: -I${includedir}
+ + Libs: -L${libdir} -lXmu
+ --- libxmu-1.1.2.orig/debian/patches/series
+ --- libxmu-1.1.2.orig/debian/patches/series
+ --- libxmu-1.1.2.orig/debian/rules
+ --- libxmu-1.1.2.orig/debian/rules
+ @ @ -0,0 +1 @ @
+
+
+ +#/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
+dh_strip -plibxmuu1 --dbg-package=libxmuu1-dbg
--- libxmu-1.1.2.orig/debian/watch
+++ libxmu-1.1.2/debian/watch
@@ -0,0 +1,3 @@
+#git=git://anongit.freedesktop.org/xorg/lib/libXmu
+version=3
+http://xorg.freedesktop.org/releases/individual/lib/libXmu-(.*).tar.gz

Found in path(s):  
* /opt/ws_local/PERMITS_SQL/1013987576_1591897387.78/0/libxmu-1-1-2-2-diff-gz/libxmu_1.1.2-2.diff

1.883 libnfsidmap 0.25 5

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Version 3, 29 June 2007
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1.896 fdisk 2.27.0
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

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

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

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbd 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
2e1cee529cb59c9341afe0443f196a1 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     Fsize Bsize Cpg
  c      4096  20479   16384    8M unused  0   0   0
  d         0 16064   16065  7.9M unused  0   0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-----------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

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

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

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

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

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
  a     4096   6144   2049  1M 4.2BSD  0   0   0
  c     4096  20479   16384    8M unused  0   0   0
  d     0 16064   16065  7.9M unused  0   0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-----------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

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

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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1.897 joda-time 2.9.2
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1.898 libuv 1.9.1

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#ifndef 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: /* UV_BSD_H */

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* /opt/cola/permits/1150922516_1617720560.31/0/gson-2-5-sources-3-jar/com/google/gson/JsonDeserializationException.java
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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 = -fPIC

## 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 $@ $<
## Dependency rules

%.d: $(srcreg)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN\_DEPS\_c\) $< \\
| sed "/^s/(<$\*>)/.*o $@ : /g" > $@; \\
[ -s $@ ] || rm -f $@"'

%.d: $(srcreg)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN\_DEPS\_cc\) $< \\
| sed "/^s/(<$\*>)/.*o $@ : /g" > $@; \\
[ -s $@ ] || rm -f $@"'

## Versioned libraries rules

%.\$(SO),\$(SO\_TARGET\_VERSION\_MAJOR): %.\$(SO),\$(SO\_TARGET\_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.\$(SO): %.\$(SO),\$(SO\_TARGET\_VERSION\_MAJOR)
$(RM) $@ && ln -s {*F},${(SO),$(SO\_TARGET\_VERSION)} $@

## Bind internal references

# LDflags that pkgdata will use
BIR\_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR\_DEPS=

## Remove shared library 's'
STATIC\_PREFIX\_WHEN\_USED =
STATIC\_PREFIX =

## End BSD-specific setup

1.905 sensible-utils 0.0.9ubuntu0.16.04.1

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Anibal Monsalve Salazar <anibal@debian.org>.

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1.907 libpciaccess 0.13.4 1

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1.908 pyrsistent 0.17.3
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This private header is also used by Apple's open source mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

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1.921 jackson-jaxrs 2.9.8

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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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### 1.922 zookeeper 3.6.2

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jar/org/apache/zookeeper/server/admin/CommandResponse.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-
jar/org/apache/zookeeper/MultiOperationRecord.java
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jar/org/apache/zookeeper/MultiResponse.java
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jar/org/apache/zookeeper/OpResult.java
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jar/org/apache/zookeeper/server/watch/WatchesSummary.java
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jar/org/apache/zookeeper/server/watch/WatchesPathReport.java
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jar/org/apache/zookeeper/server/ZooKeeperServerConf.java
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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/auth/KerberosName.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/NIOServerCnxn.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/NodeHashMap.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/command/ConfCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/ProposalRequestProcessor.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/QuorumPeerConfig.java
* /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
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/util/VerifyingFileFactory.java
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* /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
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/audit/AuditLogger.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/SaslClientCallbackHandler.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/LocalPeerBean.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/CommitProcessor.java
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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/GetAllChildrenNumberCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/SyncCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/GetAclCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/LsCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/VersionCommand.java

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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/util/MessageTracker.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/util/CircularBuffer.java

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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/common/PathUtils.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/common/PathTrie.java

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Written by: Philip Hazel
Email local part: ph10
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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 3a0982da308228d796df35f98d787c5cffffffb5b6.

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

Author: Julio Merino <jmmv84@gmail.com>

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

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    <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"/>
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        <xsl:with-param name="text"><xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">Copyright (C) </xsl:for-each></xsl:with-param>
        <xsl:call-template name="copyright.years">
            <xsl:with-param name="years">year</xsl:with-param>
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@end enumerate

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (douglas@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(agra@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssdc.sd.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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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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   d) If 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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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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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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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.

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END OF TERMS AND CONDITIONS

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

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

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the
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1.930 woodstox-core 5.0.3

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*/opt/cola/permits/1135953508_1613640887.59/0/woodstox-core-5-0-3-3-jar/META-INF/maven/com.fasterxml.woodstox/woodstox-core/pom.xml
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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
Bundle-Document: https://github.com/FasterXML/woodstox
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Woodstox
Bundle-SymbolicName: com.fasterxml.woodstox.woodstox-core
Bundle-Vendor: FasterXML
Bundle-Version: 5.0.3
Created-By: Apache Maven Bundle Plugin
Export-Package: com.ctc.wstx.api;version="5.0.3",com.ctc.wstx.cfg;version="5.0.3",com.ctc.wstx.compat;version="5.0.3",com.ctc.wstx.dom;version="5.0.3",com.ctc.wstx.dtd;version="5.0.3",com.ctc.wstx.ent;version="5.0.3",com.ctc.wstx.evtx;version="5.0.3",com.ctc.wstx.exc;version="5.0.3",com.ctc.wstx.io;version="5.0.3",com.ctc.wstx.msv;version="5.0.3",com.ctc.wstx.osgi;version="5.0.3",com.ctc.wstx.sax;version="5.0.3",com.ctc.wstx.sr;version="5.0.3",com.ctc.wstx.stax;version="5.0.3",com.ctc.wstx.sw;version="5.0.3",com.ctc.wstx.util;version="5.0.3"
Implementation-Build-Date: 2016-08-24 03:58:19+0000
Implementation-Title: Woodstox
Implementation-Vendor-Id: com.fasterxml.woodstox
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 * *
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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
 * 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.
 */

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 *
 * This file contains additional configuration options that customize the
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 */

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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
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.
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.

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 * jidctfst.c
 *
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 *
 * 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.
 */

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 *
 * This file contains routines to write JPEG datastream markers.
 */

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 *
 * 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 stdio 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.

/*
* jcmainct.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/jcmainct.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 \* Cb + K3 \* Cr  
\* B = Y + K4 \* 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:  
\* YCC => 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:

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERVIEW</td>
<td>General description of JPEG and the IJG software.</td>
</tr>
<tr>
<td>LEGAL ISSUES</td>
<td>Copyright, lack of warranty, terms of distribution.</td>
</tr>
<tr>
<td>REFERENCES</td>
<td>Where to learn more about JPEG.</td>
</tr>
</tbody>
</table>
ARChive locations Where to find newer versions of this software.
Acksnowledgments 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 wrijpgcom.
*.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.
coderules.txt Coding style rules --- please read if you contribute code.

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
 ArchieVe 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 "rdjppcom" and "wrjppcom", 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.

(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 Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). 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.ijg.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/jpegsr9c.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 ijg.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.
IIG 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):
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):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcdctmgr.c
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/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).
 */
/*
 * 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 pmnconvol). 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.
*/
/*
 * 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.
 */

/*
 * 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.
 */

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 9805
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 ("cjpeg" and "djpeg") 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, "rdjgpcom" and "wrjgpcom".

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

Include files:

jpeglib.h JPEG 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.
jerro.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, jerro.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/djjpeg/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.
jmmainct.c: Main buffer controller (preprocessor => JPEG compressor).
jcprepcnt.c: Preprocessor buffer controller.
jjcoefficient.c: Buffer controller for DCT coefficient buffer.
jjcolor.c: Color space conversion.
jcsample.c: Downsampling.
jdcparam.c: DCT manager (DCT implementation selection & control).
jfdctint.c: Forward DCT using slow-but-accurate integer method.
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.
jdmaintct.c: Main buffer controller (JPEG decompressor => postprocessor).
jdcoefficient.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: IDCT manager (IDCT implementation selection & control).
jidctint.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.
jdcparam.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.
jdatadsrc.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:

jmemdosa.asm: 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPG/DJPG/JPEGTRAN

Include files:

cdjpeg.h: Declarations shared by cjpeg/djpeg/jpegtran modules.
cerror.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.
rdswitch.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.
rdfif.c: GIF file input (now just a stub).
rdppm.c: PPM/PGM file input.
rdrle.c: Utah RLE file input.
rdtarga.c: Targa file input.

Image file writer modules for djpeg:

wrbmp.c: BMP file output.
wrdfif.c: GIF file output (a mere shadow of its former self).
wrppm.c: PPM/PGM file output.
wrdrle.c: Utah RLE file output.
wrtdarga.c: Targa file output.

RDJPGOPM/WRJPGOPM

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):

READMEMaster 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).
config.guess
config.sub
depcomp
missing
ar-lib
compile
install-shInstall shell script for those Unix systems lacking one.
Makefile.inMakefile input for configure.
Makefile.amSource file for use with Automake to generate Makefile.in.
ckconfig.cProgram to generate jconfig.h on non-Unix systems.
jconfig.txtTemplate for making jconfig.h by hand.
mak*.*Sample makefiles for particular systems.
jconfig.*Sample jconfig.h for particular systems.
libjpeg.mapScript to generate shared library with versioned symbols.
libjpeg.pc.inlibjpeg.pc pkg-config file input for configure.
aclocal.m4M4 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/110363654_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 downsampled 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
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 preprocessor/postprocessor 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 jpegdst.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
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 $V_{\text{max}}$ pixel rows of each component before downsampling, and $V_k$ sample rows afterwards (remember $V_k$ 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.

* Colorspace 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:

```c
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 JBLECTs, 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.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. 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

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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,
ever-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.

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* /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
 * 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 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):
*/

*/

*/

*/

*/

*/
* is defined to be \( (v_{\text{samp\_factor}} \times DCT_{\text{v\_scaled\_size}} / \min_{\text{DCT\_v\_scaled\_size}}) \)
* sample rows of each component. Upsampling will normally produce
* \( \max_{\text{v\_samp\_factor}} \) 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 file Read quantization tables from text file
* -scans file Read 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.
*/
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 9836

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.

/*
 * jdcoefct.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/jdcoefct.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 stdin 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.

/*
* wrpppm.c
* 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 ppmtogif from the PBMPLUS distribution of Feb. 1991. That file contains the following copyright notice:

- Based on GIFENCODE 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):

```
/opt/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.
* /
```
/*
 * 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.
 */

/*
 * 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...)
*/

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

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, 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.

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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using the automatic "configure" script
using one of the supplied jconfig and makefile files
by hand
Building the software
Testing the software
Installing the software
Optional stuff
Optimization
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:

Makefile|jconfig file|System and/or compiler
-------|-------------|---------------------
makefile.manx|jconfig.manx|Manx Aztec C
makefile.sas|jconfig.sas|SAS C
makeproj.mac|jconfig.mac|Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.st|jconfig.st|Atari ST/STE/TT, Pure C or Turbo C
makefile.bcc|jconfig.bcc|MS-DOS or OS/2, Borland C
makefile.dj|jconfig.dj|MS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6|jconfig.mc6|MS-DOS, Microsoft C (16-bit only)
makefile.wat|jconfig.wat|Windows NT, Watcom C
makefile.wc|jconfig.wc|Windows, MS Visual C++
makefile.vc|jconfig.vc|Windows, MS Visual C++ 6 Developer Studio
make*vc6
makefile.b32|jconfig.vc|Windows, Borland C++ 32-bit (bcc32)
makefile.mms|jconfig.vms|Digital VMS, with MMS software
makefile.vms|jconfig.vms|Digital VMS, without MMS software

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
ckconfig.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.
testimg.ppmlThe output of djpeg testorig.jpg

testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
testimg.jpg The output of cjpeg testimg.ppml
testprogp.jpg Progressive-mode equivalent of testorig.jpg.
testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppml

(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testimg* 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 cjpeg by hand and compare the output files to testimg* 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 cjpeg 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 "djpeg -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_FDOPEN 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 testimg.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 PROGRESSREPORT (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 `-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 `jomorecfg.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 cjpeg 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., -finline-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
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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'
dependency section.

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
"JPEGTMP:".

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_FOPEN 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 jmemanasi.c or jmename.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 jmemanasi.c or jmename.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 jemansi.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 \\n" 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:

/* 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
#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
fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
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 jmemnobs.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 jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

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. */
#ifndef _WIN32
  #ifdef __RPCNDR_H__/* don't conflict if rpcndr.h already read */
    typedef unsigned char boolean;
  #endif
  #ifndef FALSE/* in case these macros already exist */
    #define FALSE0/* values of boolean */
  #endif
  #ifndef TRUE
    #define TRUE1
  #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.

*/

#endif 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 cjpeg.c or djpeg.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 cjpeg/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 PBMPPLUS 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):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
 * 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 jcparam.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.

/*
* jcoefct.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.

/*
 * 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/jquant1.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.
 */

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 9878
* This file contains input colorspace conversion routines.
*/

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.

/*
 * 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.
 */

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.

/*
 * 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.
 */

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

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

/*
 * 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.

/ *
* cerror.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 cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

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

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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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

```c
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:

```c
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_width: Width of image, in pixels
- image_height: Height of image, in pixels
- input_components: Number of color channels (samples per pixel)
- in_color_space: Color space of source image

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

```c
    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:

```c
JSAMP Row 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:

```c
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

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 (ie, 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().

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.

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.

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.

```c
jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
```
Set default quantization tables with linear q_scale_factor[] values (see below).

```c
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.

```c
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:

```c
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_SUBTRACTGREEN.
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
(i.e., 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:

```c
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:

```c
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

```c
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.

```c
JDIMENSION jpeg_width
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
J_COLOR_SPACE jpeg_color_space
boolean saw_JFIF_marker
UINT8 JFIF_major_version
UINT8 JFIF_minor_version
UINT8 density_unit
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker
UINT8 Adobe_transform

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 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 jdcolor.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
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

in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN.
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 bufferload 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:

```c
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
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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
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

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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:
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:

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
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 kluggy, 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 prevent abbreviated images from being created accidentally.)

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":

```
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

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_colorsapce()
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 samples per row
- cinfo->comp_info[i].height_in_blocks*block_size 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 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 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 downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_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 frammish 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 decompression 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().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(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 jpegSuppressTables(), 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 (e.g., 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.

c 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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/ *
  * 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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/*
 * jdtrans.c
 *
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 *
 * 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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 *
 * 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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*
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*
* 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
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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.
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 9950

*/

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*/

* jcapistd.c
*
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* 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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*/

* transupp.h
*
* Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
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* 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
*
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* 
* 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
*
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* 
* 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
* 
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* 
* 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.
*/

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapistd.c
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*/
* jerror.c
* 
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* 
* 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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*
* 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 jdapim.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapimin.c

1.937 jaxrs-ri 2.21

1.938 kerb-identity 2.0.0
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THE BASIC LIBRARY FUNCTIONS
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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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1.957 icu 57
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## Copyright (c) 1999-2009, International Business Machines Corporation and
## others. All Rights Reserved.
```

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 10038
## 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
SHAREDLIBXXFLAGS = -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) $< \n| sed \"s/\*($*)\*/\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) $@

## End FreeBSD-specific setup

1.958 xpp 6.5.0
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Felix Geisendrfer (felix@debuggable.com)

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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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 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
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=== src/compat.h src/compat-inl.h ===

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'},

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'./config/archs/BSD-x86_64/asm_avx2/crypto/sha512-x86_64.s',
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'NDEBUG',
'L_ENDIAN',
'OPENSSL_PIC',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
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]
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```

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Ty Coon, President of Vice

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
=======================================================================
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1.965 jjwt 0.6.0

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1.966 nvme-cli 0.5-1ubuntu0.1

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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) $@

## 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

1.969 slf4j 1.7.2
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1.972 adduser 3.113+nmu3ubuntu4

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<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 <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschlus.de>

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.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);
}

double String toString(Tag tag) {
    return toString(new Tag[1] { tag });
}

double 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 \&#169; "+ tags[i].text() + "</i></dt>");
                }
            result.append("</dl>");
            return result.toString();
        } else {
            return null;
        }
    }
}

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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 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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To apply these terms, attach the following notices to the library.
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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!

// 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 = -5636570222315966674LL;
::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).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc.

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
@c This file is intended to be included in another file.
@display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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To protect your rights, we need to prevent others from denying you
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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.
@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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

``The Program'' refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you''. ``Licensees'' and ``recipients'' may be individuals or organizations.

To ``modify'' a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version'' of the earlier work or a work ``based on'' the earlier work.

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

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.

An interactive user interface displays ``Appropriate Legal Notices'' to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

@item Source Code.

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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@item Conveying Modified Source Versions.

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

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

@item
The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to `keep intact all notices`.

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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.

@item
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.
@end enumerate

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.

@item Conveying Non-Source Forms.

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:

@enumerate a
@item
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.

@item
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.

@item
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.

@item
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.

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

@end enumerate

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

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

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

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for
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/* Permission.java -- The superclass for all permission objects

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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.
 * *<p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @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 = -563657022231596674L;
private String name;

public Permission(String name)
{
    this.name = name;
}

public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

public abstract boolean implies(Permission perm);

public abstract boolean equals(Object obj);
* @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>.
 *
 * @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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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
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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Ty Coon, President of Vice

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Version 3, 29 June 2007
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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 <acronym>GPL</acronym> assures that patents cannot be used to render the program non-free.

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

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<para>
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<para>
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<para>
An interactive user interface displays Appropriate Legal Notices to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.
</para>
<bridgehead xml:id="SourceCode" renderas="sect1">
</bridgehead>
<para>
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.
</para>
<para>
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.
</para>
<para>
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 works
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
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the source code for shared libraries and dynamically linked subprograms that
the work is specifically designed to require, such as by intimate data
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the work.

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      The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to keep intact all notices.
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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.

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.

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
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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!
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
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bears a notice placed by the copyright holder of the file stating that
the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of
certain GCC header files and runtime libraries with the compiled
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime
Library for execution after a Compilation Process, or makes use of an
interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or a specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,
modification and use would permit combination with GCC in accord with
the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual
target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

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<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!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>
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<meta name="generator" content="DocBook XSL-NS Stylesheets V1.78.1" />
<meta name="keywords" content="ISO C++, library" />
<meta name="keywords" content="ISO C++, runtime, library" />
<link rel="home" href="../index.html" title="The GNU C++ Library" />
<link rel="up" href="status.html" title="Chapter1.Status" />
<link rel="prev" href="status.html" title="Chapter1.Status" />
<link rel="next" href="bugs.html" title="Bugs" />
</head>
<body>
<div class="navheader">
<table width="100%" summary="Navigation header">
<tr><th colspan="3" align="center">License</th></tr>
<tr><td width="20%" align="left"><a accesskey="p" href="status.html">Prev</a></td><th width="60%" align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n" href="bugs.html">Next</a></td></tr>
</table>
<hr />
</div>
<div class="section">
<div class="titlepage">
<div><div><h2 class="title" style="clear: both"><a id="manual.intro.status.license"></a>License</h2></div></div></div>
<p>There are two licenses affecting GNU libstdc++: one for the code, and one for the documentation.</p>
</div>
</body>
</html>
Version 3.1, 31 March 2009

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0. Definitions.<br />

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The Compilation Process transforms code entirely represented in non-intermediatelanguages designed for human-written code, and/or in Java Virtual Machine bytecode, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or...
ACompilationProcessis"Eligible"ifitisdoneusingGCC,aloneor<br />withotherGPL-compatiblesoftware,orifitisdonewithoutusingany<br />workbasedonGCC.Forexample,usingnon-GPL-compatibleSoftwareto<br />optimizeanyGCCintermediaterepresentationswouldnotqualifyasan<br />EligibleCompilationProcess.<br />
<br />
1. GrantofAdditionalPermission.<br />
<br />
YouhavepermissiontopropagateaworkofTargetCodeformedby<br />combiningtheRuntimeLibrarywithIndependentModules,evenifsuch<br />propagationwouldotherwiseviolateotherdamageGPLv3,providedthat<br />allTargetCodewasgeneratedbyEligibleCompilationProcesses.You<br />maythenconveysuchacombinationundertermsofyourchoice.<br />
consistentwiththelicensingoftheIndependentModules.<br />
<br />
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<br />
TheavailabilityofthisExceptiondoesnotimplyanygeneral<br />presumptionthatthird-partysoftwareisunaffectedbythecopyleft<br />requirementsofthelicenseofGCC.<br />

Hopefully that text is self-explanatory. If it isn't, you need to speak<nowiki>

to your lawyer, or the Free Software Foundation.
</nowiki>
#!/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',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltversion.m4',
            'ltversion.m4',
        ])

        self.skip_dirs |= set([
            # Skip auto- and libtool-related directories
            'aclocal.m4',
            'compile',
            'config-guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltversion.m4',
            'ltversion.m4',
        ])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile (r'\')
    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+-\s*\[0-9-9\]'

        # 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\(\)')
            '|[Cc]opyright = u\'' 
            '@set\s+copyright[\w-]+')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
\texttt{\{(\s*\?\:+\s+[0-9-]*\?\)\}{\s*\?\:+\s+[0-9-]*\?\)}}

# 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).
'\((?:' + name + '(?:\s?' + name + ')*)\)'

# 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]+',
    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)
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:
def 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:
            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.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                for (what, help) in self.option_help:
                    sys.stdout.write (format % (what, help))
                sys.stdout.write ('%nDirectories\n')

            format = '%-25s'
            i = 0
            for (dir, filter) in self.dirs:
                i += 1
                if i % 3 == 0 or i == len (self.dirs):
sys.stdout.write (dir + \n)
else:
    sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith (canon_dir):
                    count += 1
            self.copyright.process_tree (dir, filter)
            if count == 0:
                self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                sys.exit (0 if self.errors.ok() else 1)

#---------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
if filename.endswith('.m4 '):
    pathname = os.path.join (dir, filename)
    with open (pathname) as file:
        # Skip files imported from gettext.
        if file.readline().find ('gettext-') >= 0:
            return True
    return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Not part of GCC
            'math-68881.h',
        )

        self.skip_dirs |= set (
            # Better not create a merge nightmare for the GNAT folks.
            'ada',
        )

        # Handled separately.
        'testsuite',
    )

        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        )

        self.fossilised_files |= set (
            # Old news won't be updated.
            'ONEWS',
        )

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
        )
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
        ']}

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 10562
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.')
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        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 ('gnatools')
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 ('libobjc')
self.add_dir ('libquadmath')
# libgfortran is imported from upstream.
self.add_dir ('libssp')
self.add_dir (os.path.join ('libobjc', 'testsuite'), TestsuiteFilter())
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',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]
GCCCmdLine().main()
1f+gnu/classpath/tools/taglets/CopyrightTaglet.java/lang/Objectcom/sun/tools/doclets/TagletNAMEjava/lang/String;
ConstantValue copyrightHEADER
Copyright: <init>() VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverview inPackage inTypes InlineTag register(Ljava/util/Map;) V

&(*)
java/util/Map+.put8(Ljava/lang/Object;Ljava/lang/Object;);Ljava/lang/Object;
tagletMapLjava/util/Map;copyrightTaglettoString() (Ljava/com/sun/javadoc/Tag;)Ljava/lang/String;com/sun/javadoc/Ta
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KX0Z</d>
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

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7806)+=>+29<=+_BYDN-EGW67+29%+-KYMO+29RURWG+-+YGW-.[F`ade fge+k/l7m>nDoSpunstw>\]_`
`a7TbcA``ade
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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__

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader.
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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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<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	
#define ASM_SHORT \t.word	
#define ASM_LONG \t.long	
#define ASM_QUAD \t.quad	 /* 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)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u
", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#if defined 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), 	.align %d
", (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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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * @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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// 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__

1.975 llvm 4.0.0

1.975.1 Available under license :

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

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register

BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: ; preds = %CF246, %BB
%Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %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
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpadd 32(%rsi), %ymm1, %ymm1
; 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: vpadd (%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), %xmm0
; CHECK-NEXT: vmovdqa 32(%rsi), %xmm1
; CHECK-NEXT: retq
%e = load <64 x i8>, <64 x i8>* %a
%f = load <64 x i8>, <64 x i8>* %b
%g = add <64 x i8> %e, %f
store <64 x i8> %g, <64 x i8>* %c
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
    ; 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:  vpmaddwd (%rsi), %zmm0, %zmm1
    ; CHECK-NEXT:  vmovdqa64 %zmm1, (%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
    ret void
}

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store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

declare 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)
 ; 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
}

declare 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>* %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
}
declare 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:
 ; 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:  vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB8_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpaddd %ymm2, %ymm0, %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 %ymm2, %ymm0, %ymm0
; 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> [ %11, %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

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%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>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <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>
%bin.rdx = add <32 x i32> %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <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>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <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>
%bin.rdx18 = add <32 x i32> %bin.rdx, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <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>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {  
  ...
  ; 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, %zmm2, %zmm3
  ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm2, %zmm3
  ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm2, %zmm3

  ...

; CHECK-NEXT: vpadd %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: vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpsufd {[*#+]} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpsufd {[*#+]} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; 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> [ %11, %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, 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 unde
%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 unde

%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>
%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>
%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>
%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: vpsadbwb %xmm2, %xmm2
; CHECK-NEXT: vpaddd %ymm1, %ymm2, %ymm1
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: jne .LBB10_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpsadbwb b+1024(%rax), %xmm2, %xmm2
; CHECK-NEXT: vpadd %ymm1, %ymm2, %ymm1
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB10_1
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %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>
%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, 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 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.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>
%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, 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

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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, 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> undef, i32 undef, 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, <16 x i32> undef, <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, 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, 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> undef, <16 x i32> undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, 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, zeroinitialize
%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:  vpmovm2d %k0, %zmm1
    ; CHECK-NEXT:  vcvtdq2ps %zmm1, %zmm1
    ; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT:  vmovaps %zmm0, 32(%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%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:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtqd2pd %xmm0, %ymm1
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtqd2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:    vcvtqd2pd %xmm2, %ymm3
    ; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:    vcvtqd2pd %xmm2, %ymm2
    ; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm1, 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, 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: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vpsrld $31, %ymm1, %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 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %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, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vmovaps %zmm0, 32(%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: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    %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 void @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    %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
}
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptou <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: vpsld $31, %zmm1, %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 = fptou <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 = 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],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31] 
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 = 
  ymm0[8,9,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,27,27,28,28,29,29,30,30,31,31] 
; CHECK-NEXT: vpmlulw %ymm4, %ymm5, %ymm4 
; CHECK-NEXT: vmovdqa {{.*#+}} ymm5 = 
; CHECK-NEXT: vpand %ymm5, %ymm4, %ymm4 
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm2 = 
  ymm2[0],ymm0[0],ymm2[1],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[0,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,20,20,21,21,22,22,23,23] 
; CHECK-NEXT: vpmlulw %ymm2, %ymm0, %ymm0 
; CHECK-NEXT: vpand %ymm5, %ymm4, %ymm0 
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm2 = 
  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: vpunpcklbw {{.*#+}} ymm4 = 
  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: vpmlulw %ymm2, %ymm4, %ymm2 
; CHECK-NEXT: vpand %ymm5, %ymm2, %ymm0 
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm3 = 
  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] 
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm1 =
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 =  
    ; CHECK-NEXT:    vpmullw %zmm3, %zmm1, %zmm1  
    ; CHECK-NEXT:    vpackuswb %ymm2, %ymm1, %ymm1  
    ; CHECK-NEXT:    vmovdqa %ymm1, 32(%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  
}
; CHECK-NEXT: vpmullw %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpandq %zmm3, %zmm0, %zmm0
; CHECK-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%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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LLVM Release License
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University of Illinois at Urbana-Champaign

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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 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
;
; 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
;
; 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>

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
  
  ; 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>

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; 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
;
; 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

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>
    ret void
}

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

:\n%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
}
$OpenBSD: COPYRIGHT,v 1.3 2003/06/02 20:18:36 millert Exp $

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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 [
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: sshll2.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
}
; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, 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.
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:  %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 = inttopr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %[[M3:const_mat[0-9]*]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %8 = inttopr i32 %[[M3]] to i8*
; CHECK-NEXT:  %9 = load volatile i8, i8* %8
; CHECK-NEXT:  %10 = inttopr i32 %[[C4]] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %[[M4:const_mat[0-9]*]] = add i32 %[[C4]], 31
; CHECK-NEXT:  %11 = inttopr i32 %[[M4]] to i8*
; CHECK-NEXT:  store i8 %7, i8* %11
; CHECK-NEXT:  %12 = inttopr i32 %[[C3]] to i8*
; CHECK-NEXT:  store i8 %5, i8* %12
; CHECK-NEXT:  %[[M5:const_mat[0-9]*]] = add i32 %[[C3]], 7
; CHECK-NEXT:  %13 = inttopr i32 %[[M5]] to i8*
; CHECK-NEXT:  store i8 %3, i8* %13
; CHECK-NEXT:  %14 = inttopr i32 %[[C1]], 80
; CHECK-NEXT:  %15 = inttopr 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* inttopr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttopr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttopr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttopr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttopr (i32 805874727 to i8*)
  store i8 %4, i8* inttopr(i32 805873668 to i8*)
  store i8 %3, i8* inttopr(i32 805873719 to i8*)
  store i8 %2, i8* inttopr(i32 805873720 to i8*)
  store i8 %1, i8* inttopr(i32 805873727 to i8*)
  store i8* inttopr(i32 805874800 to i8*), i8** @goo
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG:  %[[M1:const_mat[0-9]*]] = bitcast i32 805874752 to i32
; CHECK-DAG:  %[[M2:const_mat[0-9]*]] = bitcast i32 805874688 to i32
; CHECK:  %0 = inttopr i32 %[[C2]] to i16*
; CHECK-NEXT:  %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT:  %[[M1:const_mat[0-9]*]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttopr 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 = inttopr i32 %[[M2]] to i16*
; CHECK-NEXT:  %5 = load volatile i16, i16* %4, align 2
Open Source Used In HyperFlex HX Data Platform 5.0(2a)  10666

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
}

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 805874720 to i32*), align 4
    %3 = load volatile i32, i32* inttoptr (i32 805874750 to i32*), align 4
    %4 = load volatile i32, i32* inttoptr (i32 805874752 to i32*), align 4
    %5 = load volatile i32, i32* inttoptr (i32 805874774 to i32*), align 4
    ret void
}
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

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Roman Lebedev <lebedev.ri@gmail.com>
Shuo Chen <chenshuo@chenshuo.com>
Tobias Ulvgrd <tobias.ulvgard@dirac.se>
Tom Madams <tom.ej.madams@gmail.com> <tmadams@google.com>
Yixuan Qiu <yixuanq@gmail.com>
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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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Program: LLVM System Interface Library

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; RUN: llc -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
}
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/* zlib.h -- interface of the 'zlib' general purpose compression library
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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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Answer author: harp -- https://stackoverflow.com/users/4525/harpo

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+ Anand Kumria <wildfire@progsoc.org>
+ Torsten Landschoff <torsten@debian.org>

It was downloaded from http://tcpdump.org/release/libpcap-0.8.3.tar.gz

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Current upstream maintainers:
Bill Fenner <fenner@research.att.com>
Fulvio Risso <risso@polito.it>
Guy Harris <guy@alum.mit.edu>
Hannes Gredler <hannes@juniper.net>
Jun-ichiro itojun Hagino <itojun@iijlab.net>
Michael Richardson <mcr@sandelman.ottawa.on.ca>

Additional people who have contributed patches:
Alan Bawden <Alan@LCS.MIT.EDU>
Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>
Albert Chin <china@thewrittenword.com>
Andrew Brown <atatat@atatdot.net>
Antti Kantee <pooka@netbsd.org>
Arkadiusz Miskiewicz <misiek@pld.org.pl>
Armando L. Caro Jr. <acaro@mail.eecis.udel.edu>
Assar Westerlund <assar@sics.se>
Brian Ginsbach <ginsbach@cray.com>
Charles M. Hannum <mycroft@netbsd.org>
Chris G. Demetriou <cgd@netbsd.org>
Chris Pepper <pepper@mail.repppe.com>
Darren Reed <darrenr@reed.wattle.id.au>
David Kaelbling <drk@sgi.com>
David Young <dyoung@ojctech.com>
Don Ebright <Don.Ebright@compuware.com>
Eric Anderson <anderse@hp.com>
Franz Schaefer <schaefer@mond.at>
Gianluca Varenni <varenni@netgroup-serv.polito.it>
Gisle Vanem <giva@bnett.no>
Graeme Hewson <ghewson@cix.compulink.co.uk>
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Guillaume Pelat <endymion_@users.sourceforge.net>
Hyung Sik Yoon <hsyn@kr.ibm.com>
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Jan-Philip Velders <jpv@veldersjes.net>
Jason R. Thorpe <thorpej@netbsd.org>
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Lorenzo Cavallaro<sullivan@sikurezza.org>
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Maciej W. Rozyczki<macro@ds2.pg.gda.pl>
Marcus Felipe Pereira<marcus@task.com.br>
Martin Husemann<martin@netbsd.org>
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Onno van der Linden<onno@simplex.nl>
Paul Mundt<lethal@linux-sh.org>
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Phil Wood<cpw@lanl.gov>
Rafal Maszkowski<rzm@icm.edu.pl>
Rick Jones<rj@cup.hp.com>
Scott Barron<sb125499@ohiou.edu>
Scott Gifford<sgifford@tir.com>
Sebastian Krahmer<krahmer@cs.uni-potsdam.de>
Shaun Clowes<delius@progsoc.uts.edu.au>
Solomon Peachy<pizza@shaftnet.org>
Stefan Hudson<hudson@mbay.net>
Takashi Yamamoto<yamt@mwd.biglobe.ne.jp>
Tony Li<tl@procket.com>
Torsten Landschoff<brtsten@debian.org>
Uns Lider<unslider@miranda.org>
Uwe Girlich<Uwe.Girlich@philosys.de>
Xianjie Zhang<xzhang@cup.hp.com>
Yen Yen Lim
Yoann Vandoorselaere<yoyoann@prelude-ids.org>

The original LBL crew:
Steve McCanne
Craig Leres
Van Jacobson
1.986 jackson-dataformat-yaml 2.4.5

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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\[ :\]*/\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 =
```

## End BSD-specific setup

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM
EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49
+0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
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Darlin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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  jar/com/ning/http/client/Response.java
* /opt/cola/permits/1151111338_1617788569.79/0/async-http-client-1-9-40-sources-2-
  jar/com/ning/http/client/FluentCaseInsensitiveStringsMap.java
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  jar/com/ning/http/client/ws/DefaultWebSocketListener.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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File: PSReadLine
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https://github.com/PowerShell/PSReadLine

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Client application for querying drivers' configuration information
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* /opt/cola/permits/1145288430_1616148381.91/0/byte-buddy-agent-1-9-10-sources-2-jar/net/bytebuddy/agent/VirtualMachine.java
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1.1059 consul-client 1.3.9

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1.1061 snappy-java 1.1.7

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Original Author:
- [Dave Gamble](https://github.com/DaveGamble)

Current Maintainer:
- [Max Bruckner](https://github.com/FSMaxB)
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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
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

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

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

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

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<th>Owner</th>
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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.

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* /opt/cola/permits/1151111218_1617788573.39/0/netty-codec-http2-4-1-47-final-sources-1-
1.1070 kerb-common 2.0.0

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1.1074 hiredis 0.13.3-2
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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

That's all there is to it!
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
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Mueller, Andreas
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Nieuwsma, Jeff
Nikitser, Peter A.
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Ouellet, Jean-Philippe
Paquet, Eric
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Peschel, Aaron
Peylyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
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Rowe, William A., Jr.
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SATO, Yuichi
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Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Sleemo, Marc
Smith, Andy
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Soulen, Steven
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Spradling, Cloyce D.
Stier, Matthew
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Van Dinter, Theo
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de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
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, Frederic
Hein, Jochen
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krzmar, Tomislav
Marchal, Frederic
Margevius, Algimantas
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Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
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Sar, zgr
Sendn, Abel
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Taniguchi, Yasuaki
Uranga, Mikel Olasagasti
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jloup@gzip.org          madler@alumni.caltech.edu

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1.1080 python-functools32 3.2.3.2-2

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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
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1.1083 dom 1.0

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObject.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 */

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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>MODEASYNCHRONOUS</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>MODEASYNCHRONOUS</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
 * LSParser will be free to use any schema found), use the value
 * <code>null</code>.
 * , 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</a>" 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/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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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/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSConstraints.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/dom/DeferredAttrImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/DOMUtil.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xmlns/xpointer/ElementSchemePointer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/opti/DefaultElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/SoftReferenceGrammarPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/AttrNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/datatype/DurationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLTdElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/SchemaSymbols.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/util/XIntPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/ParentNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/ParentNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/ParentNode.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/ParentNode.java
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jar/org/apache/xerces/impl/dv/InvalidDatatypeFacetException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSAbstractParticleTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/StAXStreamResultBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/datatype/XMLGregorianCalendarImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/Util/XInt.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSConstants.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xml/serialize/Serializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/SAXParserImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSGroupDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DoubleDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/Version.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/io/ASCIIReader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSIDCDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/JAXPConstants.java
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jar/org/apache/wml/WMLAEElement.java
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jar/org/apache/xerces/util/EntityResolverWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/impl/ExternalSubsetResolver.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/PSVIEElementNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xinclude/XIncludeHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/ XSNamespacesItemList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/DOMEntityResolverWrapper.java
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jar/org/apache/xerces/impl/xpath/regex/RegexParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/parsers/DTDConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/jaxp/validation/SimpleXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/html/dom/HTMLLegendElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/dv/xs/YearMonthDurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xs/traversers/XSDWildcardTraverser.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xs/ElementPSVI.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/wml/WMLRefreshElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xs/util/XSGrammarPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xni/XMLResourceIdentifier.java
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   jar/org/apache/xerces/impl/dv/xs/YearDV.java
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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",
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    },
    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",
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        "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.*, !=3.5.*",
    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

Open Source Used In HyperFlex HX Data Platform 5.0(2a) 11695
Description: Jinja

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

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`:

```
$ pip install -U Jinja2
```


In A Nutshell
------------

```
{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
```

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* /opt/cola/permits/1144928742_1620110733.91/0/powermock-api-support-1-7-4-sources-2-jar/org/powermock/api/support/membermodification/strategy/MethodStubStrategy.java
* /opt/cola/permits/1144928742_1620110733.91/0/powermock-api-support-1-7-4-sources-2-jar/org/powermock/api/support/membermodification/MemberModifier.java
* /opt/cola/permits/1144928742_1620110733.91/0/powermock-api-support-1-7-4-sources-2-jar/org/powermock/api/support/membermodification/strategy/MethodReplaceStrategy.java
* /opt/cola/permits/1144928742_1620110733.91/0/powermock-api-support-1-7-4-sources-2-jar/org/powermock/api/support/Stubber.java
* /opt/cola/permits/1144928742_1620110733.91/0/powermock-api-support-1-7-4-sources-2-jar/org/powermock/api/support/membermodification/MemberMatcher.java
* /opt/cola/permits/1144928742_1620110733.91/0/powermock-api-support-1-7-4-sources-2-jar/org/powermock/api/support/MethodProxy.java
* /opt/cola/permits/1144928742_1620110733.91/0/powermock-api-support-1-7-4-sources-2-jar/org/powermock/api/support/ClassLoaderUtil.java
* /opt/cola/permits/1144928742_1620110733.91/0/powermock-api-support-1-7-4-sources-2-jar/org/powermock/api/support/impl/MethodStubStrategyImpl.java
* /opt/cola/permits/1144928742_1620110733.91/0/powermock-api-support-1-7-4-sources-2-jar/org/powermock/api/support/membermodification/strategy/impl/MethodReplaceStrategyImpl.java

1.1099 libsodium 1.0.8 5
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1.1100 file 5.25-2ubuntu1.4

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Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

Upstream Authors:
* GNU find was written by Eric Decker <cire@cisco.com>,
with enhancements by David MacKenzie <djm@gnu.org>,
Jay Plett <jay@silence.princeton.nj.us>,
and Tim Wood <axolotl!tim@toad.com>.
The idea for -print0 and xargs -0 came from
Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.
Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs
was originally written by Mike Rendell, with enhancements by David
MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally
written by James Woods, with enhancements by David MacKenzie, James Youngman
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Upstream's AUTHORS lists these major contributors:
Eric B. Decker
Michael Rendell
David J. MacKenzie
Jim Meyering
Tim Wood
Kevin Dalley <kevind@rahul.net>
Paul Eggert <eggert@cs.ucla.edu>
James Youngman <jay@gnu.org>
Current upstream maintainer is James Youngman <jay@gnu.org>.

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Source Package: xorg
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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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1.1115 certifi 2020.6.20

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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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1.1116 pciutils 3.5.2 1ubuntu1

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1.1118 servlet-api 3.0.0.v201103241327

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/*-------------------------------------------------------*/
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By Sean Eron Anderson
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https://github.com/santoshsahoo/nbench (mirror of the same code)

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1.1121 spbash 4.2.53

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John

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

John DuBois <spcecdt@armory.com>

Subject: Re: ksh scripts

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

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

>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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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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John R. Hauser
2018 January 20

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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        <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
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1.1129 werkzeug 0.10.4
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1.1131 rsync 3.1.1 3ubuntu1
1.1131.1 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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7117e9ea24146db92d453f4dbf1fd9ba1e26298
9

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Dmitry Motll <dmitry.motll@gmail.com>
Dmitry Neverov <dmitry.neverov@gmail.com>
Dmitry Savintsev <dsavints@gmail.com>
Dmitry Yakunin <nonamezeil@gmail.com>
Doga Fincan <doga@icloud.com>
Domas Tamauskas <puerdomus@gmail.com>
Domen Ipavec <domen@ipavec.net>
Dominic Della Valle <ddvpurnal@Gmail.com>
Dominic Green <dominicgreen1@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Don Byington <don@dbyington.com>
Donald Huang <don.hcd@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@google.com>
Doug Fawley <dfawley@google.com>
Douglas Danger Manley <doug.manley@gmail.com>
Drew Flower <drewvanstone@gmail.com>
Drew Hintz <adhintz@google.com>
Drew Richardson <drewrichardson@gmail.com>
Duco van Amstel <duco.vanamstel@gmail.com>
Duncan Holm <mail@frou.org>
Dustin Carlino <dcarlino@google.com>
Dustin Herbison <djherbis@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Dvir Volk <dviar@everything.me> <dvirsky@gmail.com>
Dylan Waits <dylan@waits.io>
Ed Schouten <ed@nuxi.nl>
Edan Bedrik <3d4nb3@gmail.com>
Eddie Scholtz <escholtz@google.com>
Eden Li <eden.li@gmail.com>
Eduard Urbach <e.urbach@gmail.com>
Eduardo Ramalho <eduardo.ramalho@gmail.com>
Eduardo Villaseor <evillasrmx@gmail.com>
Edward Muller <edwardam@interlix.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 12164

Geert-Johan Riemer <gjr19912@gmail.com>
Genevieve Luyt <genevieve.luyt@gmail.com>
Gengliang Wang <ltnwgl@gmail.com>
Geoff Berry <gberry.qdt@qualcommdatacenter.com>
Geoffroy Lorieux <lorieux.g@gmail.com>
Geon Kim <geon0250@gmail.com>
Georg Reinke <guellef@gmail.com>
George Gkirtsou <ggiorgtou@gmail.com>
George Hartzell <hartzell@alerc.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
George Tsilias <tsiliasg@gmail.com>
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>
Gerasimos Dimitriadi <gedimitri@gmail.com>
Gergely Brautigam <skarloso777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
Gert Cuykens <gert.cuykens@gmail.com>
Getulio Sanchez <valentin2507@gmail.com>
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>
Gianguido Sora` <sora4@gmail.com>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @180909 (70465953) <734461790@qq.com>
GitHub User @6543 (24977596) <6543@obermuy.de>
GitHub User @aca (50316549) <acadx0@gmail.com>
GitHub User @ajinrirp (1688456) <ajinrirp@users.noreply.github.com>
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
GitHub User @andig (184815) <cpuiddle@gmx.de>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.utf8@gmail.com>
GitHub User @baktepe (7851952) <baktepe@gmail.com>
GitHub User @bgadrian (830001) <aditzau@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cc123 (384546) <buau.ca@gmail.com>
GitHub User @chainhelen (7046329) <chainhelen@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @Claus (10056928) <Claus@live.cn>
GitHub User @encal (23520240) <flycalvin@qq.com>
GitHub User @DQNEO (188741) <dqneoo@gmail.com>
GitHub User @Dreamacro (8615343) <chaunian@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @EndlessCheng (7086966) <loli.con@qq.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @fatedier (7346661) <fatedier@gmail.com>
GitHub User @frenkki (6499251) <mail@rhab.de>
GitHub User @geedchin (11672310) <geedchin@gmail.com>
GitHub User @GrigoriyMikhalkin (3637857) <grigoriymikhalkin@gmail.com>
GitHub User @hengwu0 (41297446) <hengwu0@users.noreply.github.com>
GitHub User @hitzhangjie (3725760) <hit.zhangjie@gmail.com>
GitHub User @hpko (13887251) <whaibin01@hotmail.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jinmiaoluo (39730824) <jinmiaoluo@icloud.com>
GitHub User @jopbrown (6345470) <msshane2008@gmail.com>
GitHub User @kazysrh (30496953) <kazysrh0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @komisan19 (18340029) <zacharywmadigan@gmail.com>
GitHub User @nkropekk (13636453) <kamilkropiewnicki@gmail.com>
GitHub User @lhl2617 (33488131) <l.h.lee2617@gmail.com>
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @markruler (38225900) <csu0414@gmail.com>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micnncim (21333876) <micnncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @nu50218 (40682920) <nu_li@icloud.com>
GitHub User @OlgaVlPetrova (44112727) <OVVPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @povsister (11040951) <pov@mahou-shoujo.moe>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @qcrao (7698088) <qcrao91@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @SataQiu (9354727) <shidaqiu2018@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @sivchari (55221074) <shibuuuu5@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @soolaugust (10558124) <soolaugust@gmail.com>
GitHub User @surechen (7249331) <surechen17@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uji (49834542) <ujiprog@gmail.com>
GitHub User @unbyte (5772358) <i@shangyes.net>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @wolf1996 (5901874) <ksgiv37@gmail.com>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxx.net>
Grace Han <hgrace503@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Green Lightning <GreenLightning.git@googlemail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@google.com>
Greg Thelen <gthelen@google.com>
Greg Ward <greg@gerg.ca>
Grgoire Delattre <gregoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Gregory Petrosyan <gregory.petrosyan@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guilherme Souza <32180229+gqgs@users.noreply.github.com>
Guillaume J. Charmes <guillaume@charmes.net>
Guillaume Sottas <guillaume.sottas@gmail.com>
Gnther Noack <gnoack@google.com>
Guobiao Mei <meiguobiao@gmail.com>
Guodong Li <guodongli@google.com>
Guoliang Wang <siamwgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavofranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenaël Treguier <gwenn.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahirn Gnr <sigungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
HAMANO Tsukasa <hamano@osstech.co.jp>
Han-Wen Nienhuys <hanwen@google.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hallazzang@gmail.com>
Hanlin He <hanling.he@gmail.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a)  12172

Jim Kingdon  jim@bolt.me
Jim McGrath  jimmc2@gmail.com
Jim Minter  jminter@redhat.com
Jimmy Frasche  soapboxcicero@gmail.com
Jimmy Zelinskie  jimmyzelinskie@gmail.com
Jin-wook Jeong  jeweljar@hanmail.net
Jingcheng Zhang  diogin@gmail.com
Jingguo Yao  yaojingguo@gmail.com
Jingnan Si  jingnan.si@gmail.com
Jinkun Zhang  franksnolf@gmail.com
Jiong Du  londevil@gmail.com
Jirka Dank  dnk@mail.muni.cz
Jiulong Wang  jiulongw@gmail.com
Joakim Sernbrant  serbaut@gmail.com
Joe Bowbeer  joe.bowbeer@gmail.com
Joe Cortopassi  joe@joecortopassi.com
Joe Farrell  joe2farrell@gmail.com
Joe Harrison  joheshazzers@gmail.com
Joe Henke  joed.henke@gmail.com
Joe Kyo  xunianzu@gmail.com
Joe Poirier  jdpoirier@gmail.com
Joe Richey  joerichey@google.com
Joe Shaw  joe@joeshaw.org
Joe Sylve  joe.sylve@gmail.com
Joe Tsai  joetsai@digital-static.net
Joel Courtney  euphemize@gmail.com
Joel Ferrier  joelferrier@gmail.com
Joel Sing  joel@sing.id.au
Jol Stemmer  jstemmer@gmail.com
Joel Stemmer  stemmertech@gmail.com
Joey Geiger  jgeiger@users.noreply.github.com
Johan Brandhorst  johan.brandhorst@gmail.com
Johan Euphrosine  proppy@gmail.com
Johan Jansson  johan.jansson@iki.fi
Johan Knutzen  johan@senri.se
Johan Sageryd  j@1616.se
Johannes Huning  johannes.huning@gmail.com
John Asmuth  jasmuth@gmail.com
John Bampton  jbampton@gmail.com
John Beisley  huin@gmail.com
John C Barstow  jbowtie@amathaine.com
John DeNero  denero@gmail.com
John Dethridge  jcd@golang.org
John Gibb  johnngibb@gmail.com
John Gilik  john@jgilik.com
John Graham-Cumming  jgc@jgc.org
John Howard Palevich  jack.palevich@gmail.com
John Jago  johnjago@protonmail.com
Jose Luis Vzquez Gonzalez <jovsvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Joseph Morag <ssefim96@gmail.com>
Josh Baum <joshbaum@google.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrh@joshh.co.uk>
Josh Rickmar <jrick@companyzero.com>
Josh Roppo <joshropp@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Bezaleel Abednego <joshua.bezaleel@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jcjoshuachase@gmail.com>
Joshua Crowgney <jcrowgney@uw.edu>
Joshua Harshman <joshgreyhat@gmail.com>
Joshua M. Clulow <josh.clulow@joyent.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jspugar@google.com>
JT Olds <jtolds@xnet5.com>
JT Olio <hello@jtolio.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judepereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmovj@google.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julian Tibble <julian.tibble@gmail.com>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kauffmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julien Tant <julien@craftyx.fr>
Julio Montes <julio.montes@intel.com>
Jun Zhang <jim.zoumo@gmail.com>
Junchen Li <junchen.li@arm.com>
Junda Liu <junda@celer.network>
Jungho Ahn <jhahn@google.com>
Junya Hayashi <ledmonster@gmail.com>
Juraj Sukop <sukop@users.noreply.github.com>
Jure Ham <jure.ham@zemanta.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a)
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishmail@gmail.com>
Manlio Perillo <manlio.perillo@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <nmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanmiquel <marcsanmiquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Gazerro <gazerro@open2b.com>
Marco Hennings <marco.hennings@freheit.com>
Marcus B Becker <marius.becker@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <maroaarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuennerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mbucciarelli@gmail.com>
Mark Dain <mark@markdain.net>
Mark Glines <mark@glines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@gmail.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmuski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Asquino <martin.asquino@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoeﬂing <martin.hoeﬂing@gmx.de>
Martin Kreichgauser <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrman <mohrmmann@gmail.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <anty.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@di.google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Masaya Watanabe <sfbgwm30@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulyas <mgulyas86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapłiski <czapkofan@gmail.com>
Matheus Alcantara <matheussilv97@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@di.google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Masurka <masurka@google.com>
Matt Pearring <broskies@google.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsey <mdempsky@google.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matt.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthias Frei <matthias.frei@inf.ethz.ch>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Mattias Appelgren <mattias@ppelgren.se>
Mauricio Alvarado <mauricio.alvarado@leftfieldlabs.com>
Max Drosdo.www <gliran1q@gmail.com>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenik <maxsem.wiki@gmail.com>
Max Ushakov <ushmax@gmail.com>
Maxim Eryomenko <moeryomenko@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Pugachev <pugachev.mm@gmail.com>
Maxim Ushakov <ushakov@gmail.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Mehrad Sadeghi <2012.linkinpark@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com> <mzh@golangcn.org>
Mhd Sulhan <m.shulhan@gmail.com>
Mia Zhu <CrystalZhu1025getu@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 12188

Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@google.com>
Peter Conerly <pconerly@gmail.com>
Peter Dotchev <dotchev@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@google.com>
Peter Hoyes <pahoyes@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@gmail.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Pter Sunyi <speter.gol@gmail.com>
Pter Szab <pts@gmail.com>
Pter Szilgyi <peterke@gmail.com>
Peter Teichman <pteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petr Jedín <petr.jediny@gmail.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <spdp@golang.org>
Philip Brøgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Phlippp Sauter <sauterp@protonmail.com>
Philippp Stephani <phst@google.com>
Philippp Campbell <15082+phile@users.noreply.github.com>
Pierre Carru <pierre.carru@eshard.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellopiers.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Poh Zi How <poh.zihow@gmail.com>
Polina Osadcha <polliosa@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Rmy Oudompheng <oudompe@phare.normalesup.org> <remyoudompheng@gmail.com>
Ren Ogaki <re.yuz77777@gmail.com>
Rens Rikkerink <lkkerens@users.noreply.github.com>
Rhys Hiltner <rhys@justin.tv>
Ricardo Padilha <ricardospadilha@gmail.com>
Ricardo Pchevuzinske Katz <ricardo.katz@serpro.gov.br>
Ricardo Seriani <ricardo.seriani@gmail.com>
Richard Barnes <rlb@ipv.sx>
Richard Dingwall <r dingwall@gmail.com>
Richard Eric Gavaletz <gavaletz@gmail.com>
Richard Gibson <richard.gibson@gmail.com>
Richard Miller <miller.research@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Richard Pickering <richard.pickering@hotmail.co.uk>
Richard Ulmer <codesoap@mailbox.org>
Richard Wilkes <wilkes@me.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rh@golang.org>
Rick Sayre <whorfin@gmail.com>
Rijnard van Tonder <rvantonder@gmail.com>
Riku Voipio <riku.voipio@linaro.org>
Risto Jaakko Saarelma <rsarella@gmail.com>
Rob Earhart <earhart@google.com>
Rob Findley <rffindley@gmail.com>
Rob Norman <rob.norman@infinitycloud.com>
Rob Phoenix <rob@robpheoenix.com>
Rob Pike <r@golang.org>
Robert Ayrapetyan <robert.ayrapetyan@gmail.com>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@d kortschak.io>
Robert Dinu <r@varp.se>
Robert Figueiredo <robfig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@gmail.com>
Robert Kuska <rkuska@gmail.com>
Robert Obryk <robryk@gmail.com>
Robert Sesek <rsesek@gmail.com>
Robert Snedegar <roberts@gmail.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert van Gent <rvangent@gmail.com>
Robert-Andr Mauchin <zebob.m@gmail.com>
Roberto Clapis <robclap8@gmail.com>
Roberto Selbach <roberto@selbach.ca>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sven Lee <lee1300394324@gmail.com>
Sven Taute <sven.taute@gmail.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohi YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Tadeo Kondrak <me@tadeo.ca>
Taesu Pyo <pyotaesu@gmail.com>
Tai Le <letientai299@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takashi Mima <tks.m1205@gmail.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@gmail.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tams Gulcsi <tgulcsi78@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Qingyun <qingyunha@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti.taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
The Hatsune Daishi <nna200010128@gmail.com>
Thiago Avelino <@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thom Wiggers <thom@thomwiggers.nl>
Thomas Alan Copeland <talan.copeland@gmail.com>
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Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicelias.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzts@desire.sh>
Yan Zou <yzou@gmail.com>
Yang Hau <vuxj08j8@gmail.com>
Yang Tian <linuxty@gmail.com>
Yann Hodique <yhodique@gmail.com>
Yann Kerherv <yann.kerherve@gmail.com>
Yann Salan <yannsalaun1@gmail.com>
Yannic Bonenberger <contact@yannic-bonenberger.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@gmail.com>
Yaroslav Vorobiov <yar.vorobiov@gmail.com>
Yasha Bubnov <girokompass@gmail.com>
Yasser Abdulmaleki <yasser@yasser.ca>
Yasuhiro Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yasutaka Shinkazi <shinkazi@yasu26.tech>
Yasuyuki Oka <yasuyk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <yllh@pdx.edu>
Yesudeep Mangalapilly <yesudeep@gmail.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yohei Takeda <yo.tak0812@gmail.com>
Yongjian Xu <s3dmaster@gmail.com>
Yorman Arias <cixtords@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Youf Zhang <zhangyoufu@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yu, Li-Yu <afg984@gmail.com>
Yuichi Kishimoto <yk2220s@gmail.com>
Yuichi Nishiwaki <yuichi.nishiwaki@gmail.com>
Yuji Yaginuma <yuji.yaginuma@gmail.com>
Yuki Ito <mrmn10y@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yogui Sonoda <yugui@gmail.com>
Yukihiro Nishinaka <6elpinal@gmail.com>
YunQiang Su <syq@debian.org>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbinliff@gmail.com>
Zach Gershman <zachgersh@gmail.com>
Zach Hoffman <zrhoffman@apache.org>
Zach Jones <zachj1@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Gershman <zgershman@pivotal.io>
Zak <zrjknill@gmail.com>
Zakatell Kanda <hi@zkanda.io>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zhang Boyang <zhangboyang.id@gmail.com>
Zheng Dayu <davidzheng23@gmail.com>
Zheng Xu <zheng.xu@arm.com>
Zhengyu He <hzy@google.com>
Zhongpeng Lin <zplin@uber.com>
Zhongtao Chen <chzhongtao@126.com>
Zhongwei Yao <zhongwei.yao@arm.com>
Zhou Peng <p@ctriple.cn>
Ziad Hatahet <hatahet@gmail.com>
Ziheng Liu <lzhfromustc@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
Zvonimir Pavlunovic <zpavlunovic@google.com>
Zyad A. Ali <zyad.ali.me@gmail.com>
<a.maksadbek@gmail.com>
<max.faceless.frei@gmail.com>
<hagen1778@gmail.com>
<tunyk@gmail.com>
<faxriddinjon@gmail.com>
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#  Name <email address>
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Tipp Moseley <tipp@google.com>
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* 
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* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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This is the Debian package of the Cairo multi-platform 2D graphics library

Packaged by Dave Beckett <dajobe@debian.org>

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1.1154 guava 19.0

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  jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
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  jar/com/google/common/base/MoreObjects.java
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  jar/com/google/common/hash/Crc32cHashFunction.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collection/AbstractMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collection/AllEqualOrdering.java
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jar/com/google/common/coll/ForwardingImmutableSet.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/HashMultiset.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/base/Verify.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/net/HostSpecifier.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Tables.java
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  jar/com/google/common/forwarding/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/forwarding/ForwardingImmutableCollection.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/ cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/annotations/package-info.java
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  jar/com/google/common/collection/UnmodifiableListIterator.java
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  jar/com/google/common/collection/SortedMapDifference.java
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jar/com/google/common/collect/RowSortedTable.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Atomics.java
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  jar/com/google/common/annotations/VisibleForTesting.java
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  jar/com/google/common/collect/MultimapBuilder.java
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  jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
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  jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
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  jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/CharSequenceReader.java
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1.1156 icu 44
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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,-Bsymbols

## 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[^ ]*:([^ ]+)>[^ ]*>\$@;\n [ -s $@ ] || rm -f $@"'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
$(SHELL) -ec "$'(GEN_DEPS.cc) $< \n | sed ""s/$(\$*).o[^ ]*:([^ ]+)>[^ ]*>\$@;\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)
1.1157 guava 18.0

1.1158 tomcat 8.5.32
1.1158.1 Available under license:

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- web-common_3_0.xsd
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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron Jacobs <jacobsa@google.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O’Grady <elpololouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aeciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <spiprogger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed Wahed <oneofone@gmail.com>
Andrew Todd <andrew.todd@wework.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrew Z Allen <me@andrewzallen.com>
Andrey Mirchovski <mirchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>
Andy Lindeman <andy@lideman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Pan <panjf2000@gmail.com>
Andy Walker <walkeraj@gmail.com>
Andy Wang <cbeuw.andy@gmail.com>
Andzej Maciusovic <andzej.maciusovic@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Anit Gandhi <anitgandhi@gmail.com>
Ankit Goyal <ankit3goyal@gmail.com>
Anmol Sethi <anmol@aubble.com>
Annirudh Prasad <annirudh@wandb.com>
Anschel Schaffer-Cohen <anschelsc@gmail.com>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony.caninol@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony Fok <foka@debian.org>
Anthony Martin <alnity@pbrane.org>
Anthony Sottile <asottile@umich.edu>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Antoine GIRARD <sapk@sapk.fr>
Antoine Martin <antoine97.martin@gmail.com>
Anton Gyllenberg <anton@iki.fi>
Anton Kuklin <anton.a.kuklin@gmail.com>
Antonin Amand <antonin.amand@gmail.com>
Antonio Antelo <aantelov87@gmail.com>
Antonio Bibiano <antbnn@gmail.com>
Antonio Huete Jimenez <tuxillo@quantumachine.net>
Antonio Murdaca <runcom@redhat.com>
Antonio Troina <thoeni@gmail.com>
Anze Kolar <me@akolar.com>
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Borja Clemente <borja.clemente@gmail.com>
Brad Burch <brad.burch@gmail.com>
Brad Erickson <bderickson@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <rbjones@google.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Bradford Lamson-Scribner <brad.lamson@gmail.com>
Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Brandon Bennett <bbennett@fb.com>
Brandon Gilmore <varz@google.com>
Brandon Philips <brandon@ifup.org>
Brandon Ryan <bjryan19@gmail.com>
Brayden Cloud <bcloud@google.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O'Dea <bod@golang.org>
Brett Cannon <bcannon@gmail.com>
Brett Merrill <brett.j.merrill94@gmail.com>
Brian Dellisanti <briandellisanti@gmail.com>
Brian Downs <brian.downs@gmail.com>
Brian Falk <falk@logicparty.org>
Brian G. Merrell <bgmerrell@gmail.com>
Brian Gitonga Marete <marete@toshni.com> <bgmarete@gmail.com> <bgm@google.com>
Brian Kennedy <bt kennedy@gmail.com>
Brian Kessler <brian.m.kessler@gmail.com>
Brian Ketelsen <bketelsen@gmail.com>
Brian Slesinsky <skybrian@google.com>
Brian Smith <ohohvi@gmail.com>
Brian Starke <brian.starke@gmail.com>
Bryan Alexander <Kozical@msn.com>
Bryan C. Mills <bcmills@google.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Bryan Ford <brynosaurs@gmail.com>
Bryan Heden <b.heden@gmail.com>
Bulat Gaifullin <gaifullinbf@gmail.com>
Burak Guven <bguven@gmail.com>
Caine Tighe <arctanofyourface@gmail.com>
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>
Caleb Martinez <accounts@calebmartinez.com>
Caleb Spare <cespare@gmail.com>
Carl Chatfield <carlchatfield@gmail.com>
Carl Henrik Lunde <chlunde@ifi.uio.no>
Carl Jackson <carl@stripe.com>
Carl Johnson <me@carljohnson.net>
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Corey Thomasson <cthom.lists@gmail.com>
Corne van der Plas <vdplas@gmail.com>
Cosmin Nicolau <ncolau@google.com>
Costin Chirvasuta <ctin@google.com>
Craig Citro <craigcitro@google.com>
Cristian Stareu <unclejacksons@gmail.com>
Cuihtlauac ALVARADO <cuinhtlauac.alvarado@orange.com>
Cyrill Schumacher <cyrill@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daisuke Suzuki <daisuzu@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <42@dmathieu.com>
Damien Neil <dneil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <golcadddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@gmail.com>
Dan Jacques <dnj@gmail.com>
Dan Johnson <computerdruid@google.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Scales <danscales@gmail.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Cormier <danielec@knowbe4.com>
Danil de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingramds@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Kumor <rdkumor@gmail.com>
Daniel Langner <s8572327@gmail.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Lublin <daniel@lublin.se>
Daniel Mangum <georgedanielmangum@gmail.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@google.com>
Daniel Nephin <dnephin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daniela Petruzalek <daniela.petruzalek@gmail.com>
Danish Dua <danishdua@google.com>
Danish Prakash <grafitykoncept@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymond <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darren Grant <darren.e.grant@gmail.com>
Darren McCleary <darren.rmc@gmail.com>
Darshani Parajuli <parajulidarshan@gmail.com>
Datong Sun <ndnx@idndx.com>
Dave Borowitz <dborowitz@google.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Russell <forfuncsake@gmail.com>
David Anderson <danderson@gmail.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@gmail.com>
David Bond <davidsbond93@gmail.com>
David Brophy <dave@brophy.uk>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Carlier <devnexen@gmail.com>
David Carter <fresco.raja@gmail.com>
David Chase <drchase@gmail.com>
David Covert <davidhcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@gmail.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Finkel <david.finkel@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Golden <david@autopragmatic.com>
David Heuschmann <heuschmann.d@gmail.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@gmail.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Jones <djones@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@gmail.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dsymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Timm <dtimm@pivotal.io>
David Titarenco <david.titarenco@gmail.com>
David Tolpin <david.tolpin@gmail.com>
David Url <david@url.io>
David Volquartz Lebech <david@lebech.info>
David Wimmer <davidwimmer@gmail.com>
Davies Liu <davies.liu@gmail.com>
Davor Kapsa <davor.kapsa@gmail.com>
Dean Eigenmann <7621705+decanus@users.noreply.github.com>
Dean Prichard <dean.prichard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Isaev <idenx@yandex.com>
Denis Nagorny <denis.nagorny@intel.com>
Dennis Kuhnert <mail.kuhnert@gmail.com>
Denys Honsiorovskyi <honsiorovskyi@gmail.com>
Denys Smirnov <denis.smirnov.91@gmail.com>
Derek Buitenhuis <derek.buitenhuis@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgstyle.net>
Derek Parker <parkerderek86@gmail.com>
Derek Phan <derekphan94@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Dev Ojha <dojha12@gmail.com>
Dev Zhoujun <dev.zhoujun@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhaivat Pandit <dhaivatpandit@gmail.com>
Dhananjay Nakrani <dhananjayn@gmail.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
Dhruv dutt Jadhav <dhruvdutt.jadhav@gmail.com>
Di Xiao <dixiao@gmail.com>
Didier Spezia <didier.06@gmail.com>
Diego Siqueira <diego9889@gmail.com>
Dieter Plaetinck <dieter@raintank.io>
Dimitri Sokolyuk <sokolyuk@gmail.com>
Dimitri Tcaciu <dtcaciuc@gmail.com>
Dina Garmash <dgrmsb@gmail.com>
Diogo Pinela <diogoid7400@gmail.com>
Dirk Gadsden <dirk@esherido.com>
Diwaker Gupta <diwaker@wru@gmail.com>
Dmitri Gountnik <dgountnik@gmail.com>
Dmitri Popov <operator@cv.dp-net.com>
Dmitri Shuralyov <dmitshur@golang.org> <dmitri@shuralyov.com>
Dmitriy Cherchenko <dcherchenko@gmail.com>
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>
Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com>
Dmitriy Vyukov <dvyukov@gmail.com>
Dmitry Chestnykh <dchest@gmail.com>
Dmitry Doroginin <doroginin@gmail.com>
Dmitry Mottl <dmitry.mottl@gmail.com>
Dmitry Neverov <dmitry.neverov@gmail.com>
Dmitry Savintsev <dsavints@gmail.com>
Dmitry Yakunin <nonamezeil@gmail.com>
Doga Fincan <doga@icloud.com>
Domas Tamaauskas <puerdomus@gmail.com>
Domen Ipavec <domen@ipavec.net>
Dominic Green <dominiccgreen1@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Don Byington <don@dbyington.com>
Donald Huang <don.hcd@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@gmail.com>
Doug Fawley <dfawley@gmail.com>
Douglas Danger Manley <douglas.manley@gmail.com>
Drew Flower <drewvanstone@gmail.com>
Drew Hintz <adhintz@gmail.com>
Duco van Amstel <duco.vanamstel@gmail.com>
Duncan Holm <mail@frou.org>
Dustin Carlino <dcarlino@gmail.com>
Dustin Herbison <djherbis@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>
Dylan Waits <dylan@waits.io>
Ed Schouten <ed@nuxi.nl>
Edan Bedrik <3d4nb3@gmail.com>
Eddie Scholtz <escholtz@gmail.com>
Eden Li <eden.li@gmail.com>
Eduard Urbach <e.urbach@gmail.com>
Eduardo Ramalho <eduardo.ramalho@gmail.com>
Eduardo Villaseor <evillasrmx@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Uggdal <eivind@uggdal.com>
Elbert Flick <eflick@gmail.com>
Eldar Rakhinberdin <ibeono@gmail.com>
Elena Grahovac <elena@grahovac.me>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @aca (50316549) <acadx0@gmail.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
GitHub User @andig (184815) <cpuidle@gmx.de>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.utf8@gmail.com>
GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <aditz@as@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cch123 (384546) <buua.cch@gmail.com>
GitHub User @chainhelen (7046329) <chainhelen@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @encal (23520240) <flycalvin@qq.com>
GitHub User @DQNEO (188741) <dqneo@gmail.com>
GitHub User @Dreamacro (8615343) <chuainian@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eouen.sellers@gmail.com>
GitHub User @fatedier (7346661) <fatedier@gmail.com>
GitHub User @frennkie (6499251) <mail@rhab.de>
GitHub User @geedchin (11672310) <geedchin@gmail.com>
GitHub User @GrigoriyMikhalkin (3637857) <grigoriymikhalkin@gmail.com>
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jimniaoluo (39730824) <jimniaoluo@icloud.com>
GitHub User @jopbrown (6345470) <msshane2008@gmail.com>
GitHub User @kazysr (30496953) <kazysr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micnncim (21333876) <micnncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @nu50218 (40682920) <nu_11@icloud.com>
GitHub User @OlgaVlPetrova (44112727) <OVPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuannah (1298735) <yuan415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezd0+github@google.com>
Greg Telen <gthelen@gmail.com>
Greg Ward <greg@gerg.ca>
Grgoire Delattre <grgoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Gregory Petroyan <gregory.petroyan@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guillaume J. Charmes <guillaume.charmes.net>
Gntther Noack <gnoack@gmail.com>
Guobiao Mei <meiguobiao@gmail.com>
Guoliang Wang <iamwgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustovorfranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwen.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <sigungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a)  12458

Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jonathon Lacher <jonathon.lacher@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>
Jordan Christiansen <xordspar0@gmail.com>
Jordan Krage <jmrnk88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Liggitt <jliggitt@google.com>
Jordan Rhee <jordanrh@microsoft.com>
Jordi Martin <jordimartin@gmail.com>
Jorge Araya <jorgejavieran@yahoo.com.mx>
Jorge L. Fatta <jorge.fatta@auth0.com>
Jos Visser <josv@google.com>
Josa Gesell <josa@gesell.me>
Jose Luis Vquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Baum <joshbaum@google.com>
Josh Bleecher Snyder <jossharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrh@joshh.co.uk>
Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Bezaleel Abednego <joshua.bezaleel@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jchask@gmail.com>
Joshua Crowgey <jcrowgey@uw.edu>
Joshua M. Clulow <josh.clulow@joyent.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@gmail.com>
JT Olds <jtolds@xnet5.com>
JT Olio <hello@jtolio.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebperreira@gmail.com>
Jukka-Pekka Kekkonen <karatepekkka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmovj@google.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julian Tibble <julian.tibble@gmail.com>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kauffmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julio Montes <julio.montes@intel.com>
Jun Zhang <jim.zoumo@gmail.com>
Junda Liu <junda@CELER.NETWORK>
Jungho Ahn <jhahn@google.com>
Junya Hayashi <ledmonster@gmail.com>
Juraj Sukop <sukop@users.noreply.github.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <igracenin@gmail.com>
Justin Li <git@justinli.net>
Justin Niu <nuss.justin@gmail.com>
Justyn Temme <justynthememe@gmail.com>
Kai Backman <kaib@golang.org>
Kai Dong <dokia2357@gmail.com>
Kai Trukenniller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kalman Bekesi <kalmanb@google.com>
Kamal Aboul-Hosn <aboulhosn@gmail.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisieli <kamil@gmail.com> <kamil.kisieli@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukangustc@gmail.com>
Kanta Ebihara <kantaebihara@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karoly Negyesi <chx1975@gmail.com>
Karsten Khler <karsten.koehler95@gmail.com>
Karthik Nayak <karthik.188@gmail.com>
Kashav Madan <kshvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Katharine Berry <ktbry@gmail.com>
Katie Hockman <katie@golang.org>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>
Kay Zhu <kayzhu@gmail.com>
Kazuhiro Sera <seratch@gmail.com>
KB Sriram <kbsriram@gmail.com>
Keegan Carruthers-Smith <keegancsmith@gmail.com>
Kei Son <hey.callmefunny@gmail.com>
Keiji Yoshida <keijiyoshida.mail@gmail.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanniquel <marcsanniquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freheit.com>
Marcus Weiner <marius.weiner@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuennerich <mnv@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Glines <mark@glines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@gmail.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderregger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Asquino <martin.asquino@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@gmail.com>
Martin Hamrle <martin.hamrle@gmail.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 12466

Michael Lewis <mikelikespie@gmail.com>
Michael MacInnis <Michael.P.MacInnis@gmail.com>
Michael Marineau <michael.marineau@coreos.com>
Michael Matloob <matloob@google.com>
Michael McConville <momcmconville@gmail.com>
Michael McGreevy <mcgreevy@gol.org>
Michael McLoughlin <mmcloughlin@gmail.com>
Michael Munday <mike.munday@ibm.com>
Michael Pearson <mippearson@gmail.com>
Michael Piatek <piatek@google.com>
Michael Pratt <mpratt@google.com>
Michael Schaller <michael@5challer.de>
Michael Schurter <michael.schurter@gmail.com>
Michael Shields <mshields@google.com>
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>
Michael Steinert <mike.steinert@gmail.com>
Michael T. Jones <mntj@google.com> <michael.jones@gmail.com>
Michael Teichgrber <mteichgraeb@gmx.de> <mt4swm@googlemail.com>
Michael Traver <mtraver@google.com>
Michael Vetter <g.bluehut@gmail.com>
Michael Vogt <mvo@ubuntu.com>
Michal Bohuslvek <mbohuslavek@gmail.com>
Michal Cierniak <cierniak@google.com>
Micha Derkacz <ziutek@lnet.pl>
Michal Franc <lam.michal.franc@gmail.com>
Micha owicki <mlowicki@gmail.com>
Michal Pristas <michal.pristas@gmail.com>
Michal Rostecki <mrostecki@suse.de>
Michalis Kargakis <michaliskargakis@gmail.com>
Michel Lespinasse <walken@google.com>
Mickael Kerjean <mickael.kerjean@gmail.com>
Mickey Reiss <mickeyreiss@gmail.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Acero <acero@google.com>
Miguel Mendez <stxmendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <mikkieti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.leby.org>
Mike Danese <mikedanese@gmail.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhat Giydiren <serhatgiydiren@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoening <seth.a.hoening@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanehmansen@gmail.com>
Shang Jian Ding <sding3@ncsu.edu>
Shaozheng Ding <dsz0111@gmail.com>
Shaquille Wyan Que <shaqqywyan@gmail.com>
Shaun Dunning <shaun.dunning@servoice.com>
Shawn Elliott <selliott@microsoft.com>
Shawn Ledbetter <sledbetter@google.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengjing Zhu <zsj950618@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
Shijie Hao <haomj@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivani Singhal <shivani.singhal2804@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shivashis Padhi <shivashispadhi@gmail.com>
Shubham Sharma <shubham.sha12@gmail.com>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simarpreet Singh <simar@linux.com>
Simon Drake <simondrake1990@gmail.com>
Simon Ferquel <simon.ferquel@docker.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Rozman <simon@rozman.si>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chennova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Soojin Nam <jsunam@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturau <vpearutop@gmail.com>
Victor Chudnovsky <vchudnov@google.com>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@google.com>
Ville Skytt <ville.skyttta@iki.fi>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vini Rajashekhar <vinutheraj@gmail.com>
Vish Subramanian <vish@google.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara R <r.visweswara@gmail.com>
Vitaly Zdanevich <zdanevich.vitaly@ya.ru>
Vitor De Mario <vitordemario@gmail.com>
Vivek Sekhar <vsekhar@gmail.com>
Vivian Liang <vliang88@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Evgrafov <evgrafov.vladimir@gmail.com>
Vladimir Kovpak <cn007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenko <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Vojtech Bocek <vbocek@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotski <vpaprots@ca.ibm.com>
W. Trevor King <wking@tremily.us>
Wade Simmons <wade@wades.im>
Wagner Riffel <wgriffel@gmail.com>
Walt Della <walt@javins.net>
Walter Poupore <wpoupore@google.com>
Wander Larison Costa <wcosta@mozilla.com>
Wang Xuerui <git@xen0n.name>
Warren Fernandes <warren.f.fernandes@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@google.com>
Weerasak Chongnguluam <singpor@gmail.com>
Wi Cngru <crvv.mail@gmail.com>
Wei Fu <sfhuwei@163.com>
Wei Guangjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Wei Xikai <xykwei@gmail.com>
Weichao Tang <tevic.tt@gmail.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
Apache License
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This is syslog-ng, written and maintained by <bazsi@balabit.hu>
on Sat, 03 Mar 2007 16:07:59 +0100

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====
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1.1171 tcp-dump 4.9.0

1ubuntu1~ubuntu16.04.1

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Current upstream maintainers:
Bill Fenner <fenner@research.att.com>
Fulvio Risso <risso@polito.it>
Guy Harris <guy@alum.mit.edu>
Hannes Gredler <hannes@juniper.net>
Jun-ichiro itojun Hagino <itojun@iijlab.net>
Michael Richardson <mcr@sandelman.ottawa.on.ca>

Additional people who have contributed patches:
Alan Bawden <Alan@LCS.MIT.EDU>
Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>
Albert Chin <china@thewrittenword.com>
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Armando L. Caro Jr. <acaro@mail.eecis.udel.edu>
Assar Westerlund <assar@sics.se>
Brian Ginsbach <ginsbach@cray.com>
Charles M. Hannum <mycroft@netbsd.org>
Chris G. Demetriou <cgd@netbsd.org>
Chris Pepper <pepper@mail.repppe.com>
Darren Reed <darrenr@reed.wattle.id.au>
David Kaelbling <drk@sgi.com>
David Young <dyoung@ojctech.com>
Don Ebright <Don.Ebright@compuware.com>
Eric Anderson <anderse@hpl.hp.com>
Franz Schaefer <schaefer@mond.at>
Gianluca Varenni <varenni@netgroup-serv.polito.it>
Gisle Vanem <giva@bgnett.no>
Graeme Hewson <ghewson@cix.compulink.co.uk>
Greg Stark <gsstark@mit.edu>
Greg Troxel <gdt@ir.bbn.com>
Guillaume Pelat <endymion_@users.sourceforge.net>
Hyung Sik Yoon <hsyn@kr.ibm.com>
Igor Khristophorov <igor@atdot.org>
Jan-Philip Velders <jpv@veldersjes.net>
Jason R. Thorpe <sthorpe@netbsd.org>
Javier Achirica <achirica@ttd.net>
Jean Tournilhes <jt@hpl.hp.com>
Jefferson Ogata <jogata@nodc.noaa.gov>
Jesper Peterson <jesper@endace.com>
John Bankier <jbankier@rainfinity.com>
Jon Lindgren <jonl@yubyub.net>
Juergen Schoenwaelder <schoenw@ibr.cs.tu-bs.de>
Kazushi Sugyo<sugyo@pb.jp.nec.com>
Klaus Klein<klein@netbsd.org>
Koryn Grant<koryn@endace.com>
Krzysztof Halasa<khc@pm.waw.pl>
Lorenzo Cavallaro<sullivan@sikurezza.org>
Loris Degioanni<loris@netgroup-serv.polito.it>
Love Hrnquist-strand<lha@stacken.kth.se>
Maciej W. Rozycki<macro@ds2.pg.gda.pl>
Marcus Felipe Pereira<marcus@task.com.br>
Martin Husemann<martin@netbsd.org>
Mike Wiacek<mike@iroot.net>
Monroe Williams<monroe@pobox.com>
Octavian Cerna<tavy@ylabs.com>
Olaf Kirch<okir@caldera.de>
Onno van der Linden<onno@simplex.nl>
Paul Mundt<lethal@linux-sh.org>
Pavel Kankovsky<kan@dci.cz>
Peter Fales<peter@fales-lorenz.net>
Peter Jeremy<peter.jeremy@alcatel.com.au>
Phil Wood<cpw@lanl.gov>
Rafal Maszkowski<rzm@icm.edu.pl>
Rick Jones<raj@cup.hp.com>
Scott Barron<sb125499@ohiou.edu>
Scott Gifford<s rifford@tir.com>
Sebastian Krahmer<krahmer@cs.uni-potsdam.de>
Shaun Clowes<delius@progsoc.uts.edu.au>
Solomon Peachy<pizza@shaftnet.org>
Stefan Hudson<hudson@mbay.net>
Takashi Yamamoto<yamt@mwd.biglobe.ne.jp>
Tony Li<tli@procket.com>
Torsten Landschoff<torsten@debian.org>
Uns Lider<unslider@miranda.org>
Uwe Girlich<Uwe.Girlich@philosys.de>
Xianjie Zhang<xzhang@cup.hp.com>
Yen Yen Lim
Yoann Vandoorselaere<yooann@prelude-ids.org>

The original LBL crew:
Steve McCanne
Craig Leres
Van Jacobson

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1.1176 python 3.5.2

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

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

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

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2ec9 bsd.img

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

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

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

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

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

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

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
<removed>2 4096 20479 16384 8M a5 FreeBSD
-------------------
Create default BSD
2e1cee529cb59c9341afe0443f196a1 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 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
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  4096 20479   16384    8M unused       0     0   0
c  16064 16065   16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

--------

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

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

Command (m for help):
0  unused           5  4.1BSD       9  4.4LFS       d  boot
1  swap             6  Eighth Edition  a  unknown    e  ADOS
2  Version 6        7  4.2BSD       b  HPFS       f  HFS
3  Version 7        8  MS-DOS       c  ISO-9660    10 AdvFS
4  System V

Command (m for help):
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Author:

Ardo van Rangelrooij <ardo@debian.org>
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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 3a982da308228d796df35f98d787c5c6f2bb56.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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1.1184 jersey-guava 2.22.2

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  jar/jersey/repackaged/com/google/common/collection/ImmutableMapEntry.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/hash/ChecksumHashFunction.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/ImmutableRangeSet.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/hash/HashCode.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3.jar/jersey/repackaged/com/google/common/collect/Funnels.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/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/util/concurrent/Futures.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/util/concurrent/TimeLimiter.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/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
* /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/reflect/TypeToken.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/ImmutableMapEntrySet.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/Range.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/ImmutableMapKeySet.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/primitives/Chars.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/CollectPreconditions.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collect/StandardRowSortedTable.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/Ints.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/FluentIterable.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/collection/UnmodifiableIterator.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/primitives/Longs.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/RateLimiter.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/FilteredSetMultimap.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-jar/jersey/repackaged/com/google/common/reflect/AbstractInvocationHandler.java
jar/jersey/repackaged/com/google/common/collection/ForwardingDeque.java
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
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* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/eventbus/SubscriberExceptionContext.java
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/collection/Count.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
jar/jersey/repackaged/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1136699690_1613864950.92/0/jersey-guava-2-22-2-sources-3-
1.1185 chardet 2.3.0

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End

1.1189 config 1.2.0

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1.1191 coreutils 8.25 2ubuntu2

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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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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/CookieJar.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/connection/ConnectionSpecSelector.java
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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/Credentials.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/Interceptor.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/Protocol.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/ws/WebSocketProtocol.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/ws/WebSocketWriter.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/Challenge.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/TlsVersion.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/ConnectionSpec.java
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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/connection/ConnectInterceptor.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/Connection.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/tls/CertificateChainCleaner.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/platform/OptionalMethod.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/http/BridgeInterceptor.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/cache/CacheInterceptor.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/tls/OkHostnameVerifier.java

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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/http2/Http2Connection.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/cache/DiskLruCache.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/http/HttpDate.java
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/opt/cola/permits/1126275629_1611617381.77/0-okhttp-3-12-2-sources-3-jar-okhttp3/internal/tls/BasicCertificateChainCleaner.java
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/opt/cola/permits/1126275629_1611617381.77/0-okhttp-3-12-2-sources-3-jar-okhttp3/tls/BasicTrustRootIndex.java
/opt/cola/permits/1126275629_1611617381.77/0-okhttp-3-12-2-sources-3-jar-okhttp3/platform/Jdk9Platform.java
/opt/cola/permits/1126275629_1611617381.77/0-okhttp-3-12-2-sources-3-jar-okhttp3/platform/http2/ConnectionShutdownException.java
/opt/cola/permits/1126275629_1611617381.77/0-okhttp-3-12-2-sources-3-jar-okhttp3/platform/http2/RealInterceptorChain.java
/opt/cola/permits/1126275629_1611617381.77/0-okhttp-3-12-2-sources-3-jar-okhttp3/platform/tls/TrustRootIndex.java
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* /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/ProxyObjectInputStream.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/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
1.1202 netty-transport-native-epoll

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* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/LinuxSocket.java
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
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 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
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* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
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* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1258121114_1643033062.84/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/TcpMd5Util.java

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*/
/**
* 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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* /opt/cola/permits/1144928715_1620110723.51/0/spring-security-crypto-3-2-5-release-sources-3-jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java
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1.1207 libsndfile 1.0.25
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partially derived from sample code in:

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 * 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
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February 1997

HMAC: Keyed-Hashing for Message Authentication

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1.1214 zeromq 4.1.4 7ubuntu0.1

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https://github.com/piscisaureus/wepoll

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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:
      - name: *vcenter_lic_data
        state: absent

  - name: Add an invalid vCenter license
    vcenter_license:
      - name: *vcenter_lic_data
        license: 00000-00000-00000-00000-00001
        state: present
        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 Tue, 17 Apr 2012 12:19:47 -0400.

It was downloaded from https://github.com/ansible/ansible.git

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Contributors
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Sort alphabetically:

* Benedito Carlos Almeida Capela <beneditocarlos.bc@gmail.com>
* Emmanuel Antico <emmanuel.antico@gmail.com>
* Ignace Butera <nyamsprod@gmail.com>
* Mrcio Almada <marcio3w@gmail.com>
* Pascal Borreli <pascal@borreli.com>
Romain <romain@exaprint.fr>
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Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
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* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
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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}.  
 *  
 * Sub-types
 *  
 * [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes: 
 *  
 * [ @link ChannelInboundHandler] to handle inbound I/O events, and</li>
 * [ @link ChannelOutboundHandler] to handle outbound I/O operations.</li>
 *  
 * Alternatively, the following adapter classes are provided for your convenience:
 *  
 * [ @link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
 * [ @link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
 * [ @link ChannelDuplexHandler] to handle both inbound and outbound events</li>
 *  
 *  
 *  
 */
* For more information, please refer to the documentation of each subtype.
* </p>
* 
* <h3>The context object</h3>
* 
* A [ ChannelHandler ] is provided with a [ ChannelHandlerContext ] object. A [ ChannelHandler ] is supposed to interact with the
* [ ChannelPipeline ] it belongs to via a context object. Using the
* context object, the [ ChannelHandler ] can pass events upstream or
downstream, modify the pipeline dynamically, or store the information
* (using [ AttributeKey ]s) which is specific to the handler.
* 
* <h3>State management</h3>
* 
* A [ ChannelHandler ] often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* 
* <pre>
* public interface Message {
*     // your methods here
* }
* 
* public class DataServerHandler extends [ SimpleChannelInboundHandler ] &lt;Message&gt; {
*     
*     private boolean loggedIn;
*     
*     @Override
*     public void channelRead0([ ChannelHandlerContext ] ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (loggedIn) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* 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 a unauthenticated client can get
* the confidential information:
* 
* // Create a new handler instance per channel.
* // See [ ChannelInitializer ] initChannel( Channel ).
public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}

Using AttributeKeys

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 AttributeKeys which is provided by ChannelHandlerContext:

public interface Message {
    // your methods here
}

@Sharable
public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {
    private final AttributeKey&lt;Boolean&gt; auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute&lt;Boolean&gt; 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 ChannelHandlerContext, you can add the same handler instance to different pipelines:

public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
*  
*     { @code @Override}  
*     public void initChannel({@link Channel} channel) {  
*         channel.pipeline().addLast("handler", <b>SHARED</b>);  
*     }  
* }  
* </pre>  
*  
*  
* <h4>The { @code @Sharable} annotation</h4>  
* <p>  
* In the example above which used an { @link AttributeKey},  
* you might have noticed the { @code @Sharable} annotation.  
* <p>  
* 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.  
* <p>  
* 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.  
* <p>  
* This annotation is provided for documentation purpose, just like  
* <p>  
* <h3>Additional resources worth reading</h3>  
* <p>  
* 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/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-jar/io/netty/channel/ChannelHandler.java  
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* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
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* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
  jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1258121023_1643033083.17/0/netty-transport-4-1-50-final-sources-
1.1224 llvm 3.8 2ubuntu4

1.1224.1 Available under license:

; NOTE: Assertions have been autogenerated by utils/update lle_test_checks.py
; RUN: llc -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> undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
  %cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> undef, i32 undef, i32 undef, 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>
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 
%S163 = select i1 %Cmp56, i8 %L34, i8 undef 
br i1 undef, label %CF246, label %CF248 
CF248: 
; preds = %CF248, %CF246 
store i8 %S163, i8* %0 
br label %CF248 
} 

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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 -
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 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
;
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
;
define void @zext512() "min-legal-vector-width"="512" {
; SKX256-LABEL: 'zext512'
}
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
  
  ; %A = sext <8 x i16> undef to <8 x i64>
  %B = sext <8 x i32> undef to <8 x i64>
  %C = sext <16 x i8> undef to <16 x i32>
  %D = sext <16 x i16> undef to <16 x i32>
  %E = sext <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
  
  ; %A = sext <8 x i16> undef to <8 x i64>
  %B = sext <8 x i32> undef to <8 x i64>
  %C = sext <16 x i8> undef to <16 x i32>
  %D = sext <16 x i16> undef to <16 x i32>
  %E = sext <32 x i8> undef to <32 x i16>
  ret void
}
define void @sext512() "min-legal-vector-width"="512" {
  %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" {
  %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" {
  %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
}
; VEC512-LABEL: 'sext512'  
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction:  
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction:  
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction:  
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction:  
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction:  
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction:  
; 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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; 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: sshll2.2d [[BLOCK4_HI:v[0-9]+]], v4, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK5_HI:v[0-9]+]], v5, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK6_HI:v[0-9]+]], v6, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK7_HI:v[0-9]+]], v7, #0
  ; Next, convert each to double.
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO:v[0-9]+]]
  ; 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]]
; 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>
    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.
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:  %[[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:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %[[M3:const_mat[0-9]??]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to i8*
; 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:  %[[M4:const_mat[0-9]??]] = add i32 %[[C4]], 31
; CHECK-NEXT:  %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT:  store i8 %7, i8* %11
; CHECK-NEXT:  %12 = inttoptr i32 %[[C3]] 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
}

; 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 %[[C1]] 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 %[[C1]] 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: %2 = inttoptr i32 %[[C2]], 4
; CHECK-NEXT: %3 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %4 = inttoptr i32 %[[C2]], 124
; CHECK-NEXT: %5 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]], 8
; CHECK-NEXT: %9 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %10 = inttoptr i32 %[[C1]], 12
; CHECK-NEXT: %11 = load volatile i32, i32* %0, 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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Billy Robert O'Neal III <billy.oneal@gmail.com> <bion@microsoft.com>
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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  
}
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 = add nuw nsw <64 x i32> %3, %4
    ; CHECK-NEXT:    retq
}
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, %i8
%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, %i32
%7 = lshr <64 x i32> %6, %i8
%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 @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, %i32
 %6 = add nuw nsw <64 x i32> %5, %4
 %7 = lshr <64 x i32> %6, %i8
 %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, %ymm0
 ; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm1
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %1 = load <32 x i16>, <32 x i16>* %APtr
 %2 = load <32 x i16>, <32 x i16>* %BPtr
 %3 = load <16 x i32>, <16 x i32>* %CPtr
 %4 = load <16 x i32>, <16 x i32>* %CPtr
 %5 = load <16 x i32>, <16 x i32>* %CPtr
 %6 = load <16 x i32>, <16 x i32>* %CPtr
; 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:    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 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vpsubusb (%rsi), %ymm0, %ymm0
; 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
}
; 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>* %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 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: vpadd %ymm1, %ymm3, %ymm1
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; 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> [ %11, %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, 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 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 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
; 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> [ %11, %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> 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, 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 defer, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 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
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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 $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:    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, %0
%8 = sub nsw <16 x i32> zero.initializer, %6
%9 = select <16 x i1> %7, %6, %0
%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, 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 8, i32 9, i32 10, i32 11, i32 12, 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>
%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, 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: vpsadbwb 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 %s1, %zmm0, %ymm1
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 %s1, %ymm0, %ymm1


; 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[1,2,3]
; 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> [ zeroinitialize, %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
  %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
  %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, i32 undef
%bin.rdx = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define void @sbtol1632_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbtol1632_256:
; CHECK:
    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtq2ps %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 @sbtol1632_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbtol1632_512:
; CHECK:
    # %bb.0:
; CHECK-NEXT: vpmovw2m %zmm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtq2ps %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 @sbtol1664_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbtol1664_256:
; CHECK:
    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtq2pd %xmm0, %ymm0
; CHECK-NEXT: vcvtq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtq2pd %xmm0, %ymm0

; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vcvtq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 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: vcvtq2pd %ymm0, %zmm1
; CHECK-NEXT: vextract64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtq2pd %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, 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: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtq2ps %ymm0, %ymm0
; CHECK-NEXT: vpsrlq %31, %ymm0, %ymm0
; CHECK-NEXT: vcvtq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vpsrlq %31, %ymm1, %ymm1
; CHECK-NEXT: vcvtq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
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: vpsrlq $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtq2ps %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: vpmovv2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrlq $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtq2pd %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %zmm0, %xmm0
; CHECK-NEXT: vcvtq2pd %xmm0, %zmm0
; CHECK-NEXT: vpmovv2m %zmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrlq $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtq2pd %zmm0, %zmm0
; CHECK-NEXT: vpmovv2m %zmm0, %ymm2
; CHECK-NEXT: vpmovv2m %ymm2, %zmm0
; CHECK-NEXT: vpmovv2m %zmm0, %ymm2
; CHECK-NEXT: vpmovv2m %ymm2, %zmm0
; CHECK-NEXT: vpmovv2m %zmm0, %ymm2
; CHECK-NEXT: vpmovv2m %ymm2, %zmm0
; 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 %ymm0, %k0
    ; CHECK-NEXT:   vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:   vpsrld $31, %zmm0, %zmm0
    ; CHECK-NEXT:   vcvtdq2pd %ymm0, %zmm0
    ; CHECK-NEXT:   vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT:   vcvtdq2pd %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, 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, %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), %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_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 = fptos i <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 <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 = fptos i <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: vpmovdqa (%rsi), %ymm2  
; CHECK-NEXT: vpmovdqa %ymm2, %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], ym
m0[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: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT: vmovdqa {{.*#+}} ymm5 =
; CHECK-NEXT: vpand %ymm5, %ymm4, %ymm4
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm3 =
  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]
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm1 =
  ymm1[0],ymm0[0],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 %ymm3, %ymm1, %ymm1
; CHECK-NEXT: vpand %ymm5, %ymm1, %ymm1
; CHECK-NEXT: vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm3 =
  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],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 =
  ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT: vpmullw %ymm3, %ymm4, %ymm3
; CHECK-NEXT: vpand %ymm5, %ymm3, %ymm3
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm2 =
  ymm2[0],ymm0[0],ymm2[1],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[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-NEXT: vpand %ymm5, %ymm0, %ymm0
; CHECK-NEXT: vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%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

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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 =
  ; CHECK-NEXT:    zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
  ; CHECK-NEXT:      zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0
  ; CHECK-NEXT:        [26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],zmm1[32],
  ; CHECK-NEXT:      zmm0[32],zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],
  ; CHECK-NEXT:    zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50],zmm1
  ; CHECK-NEXT:      [51],zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55]
  ; CHECK-NEXT:    vpunpckhbw {{.*#+}} zmm3 =
  ; CHECK-NEXT:      vpmullw %zmm2, %zmm3, %zmm2
  ; CHECK-NEXT:      vpackuswb %zmm2, %zmm0, %zmm0
  ; CHECK-NEXT:      vmovdqa64 {{.*#+}} zmm3 =
  ; CHECK-NEXT:      vpand %zmm3, %zmm2, %zmm2
  ; CHECK-NEXT:      vpunpcklbw {{.*#+}} zmm1 =
  ; CHECK-NEXT:        zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5],
  ; CHECK-NEXT:          zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19],
  ; CHECK-NEXT:            zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm
  ; CHECK-NEXT:          0[32],zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],
  ; CHECK-NEXT:          zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50],zmm1
  ; CHECK-NEXT:            [51],zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55]
  ; CHECK-NEXT:      vpunpcklbw {{.*#+}} zmm0 =
  ; CHECK-NEXT:        zmm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,20,21,21,22,22,23,23,23,23,32,33,33,34,34,35,35,36,3
  ; CHECK-NEXT:          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:      vpmullw %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:      vpand %zmm3, %zmm0, %zmm0
  ; CHECK-NEXT:      vpackuswb %zmm2, %zmm0, %zmm0
  ; CHECK-NEXT:      vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT:      vzeroupper
  ; CHECK-NEXT:      retq

  %d = load <64 x i8>, <64 x i8>* %a, <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: vpbldned (%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>* %addr, i32 4, <4 x i32> %mask, <4 x i32> %dst)
    ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

; 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>* readonly %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, 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_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>* readonly %arg1) #0 {
    bb:
    %tmp = load <8 x i64>, align 32
    %tmp2 = load <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
}
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

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_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

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_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
<8 x i64>* readonly %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_prefer256_call_avx512_legal512_prefer512(<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_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal256_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_legal256_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_legal256_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_legal256_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>

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_legal512_prefer256(<8 x i64>* %arg, <8 x i64>

define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
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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Developed by:

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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
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only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

Based on libdl (dlfcn.c/dlfcn.h) which is
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

* cvt - IEEE floating point formatting routines.
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1.1229 jackson-xc 2.10.0

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Metadata-Version: 1.1
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.

Platform: UNKNOWN
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 2
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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:
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:

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',
)

def t_NUMBER(t):
    r'\d+'
```python
t.value = int(t.value)
return t

# Ignored characters
t_ignore = " 	"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character \"%s\"" % t.value[0])
t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# 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/1156383961_1620191530.34/0/ply-3.7-orig-1-tar-gz/ply-3.7/README.md
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* /opt/cola/permits/1156383961_1620191530.34/0/ply-3-7-orig-1-tar-gz/ply-3.7/ply/lex.py
* /opt/cola/permits/1156383961_1620191530.34/0/ply-3-7-orig-1-tar-gz/ply-3.7/ply/yacc.py

1.1231 httpcore-nio 4.4.5
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```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Home page of The Apache Software Foundation">
  <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
  <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
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  <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
  <meta name="msapplication-TileColor" content="#603cba">
  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
  <meta name="msapplication-config" content="/favicons/browserconfig.xml">
  <meta name="theme-color" content="#303284">
</head>
```
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</head>

<body>

<!-- Navigation -->

<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="/" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a> &raquo <a href="/licenses/">Licenses</a>
</div>
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
<a href="/" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="/foundation/">Overview</a></li>
<li><a href="/foundation/members.html">Members</a></li>
<li><a href="/foundation/how-it-works.html">Process</a></li>
<li><a href="/foundation/spONSORSHIP.html">Sponsorship</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html">Contact</a></li>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
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Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
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Afanasev Stanislav <phpproger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed Wahed <oneofone@gmail.com>
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Ben Olive <sionide21@gmail.com>
Ben Schwartz <bemasc@google.com>
Ben Shi <powerman1st@163.com>
Benjamin Black <b@b3k.us>
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Bob Potter <bobby.potter@gmail.com>
Bobby DeSimone <bobbydesimone@gmail.com>
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Boris Nagaev <nagaev@google.com>
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Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Brandon Bennett <bennett@fb.com>
Brandon Gilmore <varz@google.com>
Brandon Ryan <bjryan19@gmail.com>
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christopher Redden</td>
<td><a href="mailto:christopher.redden@gmail.com">christopher.redden@gmail.com</a></td>
</tr>
<tr>
<td>Christopher Swenson</td>
<td><a href="mailto:cswenson@google.com">cswenson@google.com</a></td>
</tr>
<tr>
<td>Christopher Wedgwood</td>
<td><a href="mailto:cw@f00f.org">cw@f00f.org</a></td>
</tr>
<tr>
<td>Christos Zoulas</td>
<td><a href="mailto:christos@zoulas.com">christos@zoulas.com</a></td>
</tr>
<tr>
<td>Christy Perez</td>
<td><a href="mailto:chrissy@linux.vnet.ibm.com">chrissy@linux.vnet.ibm.com</a></td>
</tr>
<tr>
<td>CL Sung</td>
<td><a href="mailto:clsung@gmail.com">clsung@gmail.com</a></td>
</tr>
<tr>
<td>Clement Chigot</td>
<td><a href="mailto:clement.chigot@atos.net">clement.chigot@atos.net</a></td>
</tr>
<tr>
<td>Clement Skau</td>
<td><a href="mailto:clementska@gmail.com">clementska@gmail.com</a></td>
</tr>
<tr>
<td>Cody Oss</td>
<td><a href="mailto:the.cody.oss@gmail.com">the.cody.oss@gmail.com</a></td>
</tr>
<tr>
<td>Colby Ranger</td>
<td><a href="mailto:cranger@gmail.com">cranger@gmail.com</a></td>
</tr>
<tr>
<td>Colin Arnott</td>
<td><a href="mailto:colin@urandom.co.uk">colin@urandom.co.uk</a></td>
</tr>
<tr>
<td>Colin Cross</td>
<td><a href="mailto:ccross@android.com">ccross@android.com</a></td>
</tr>
<tr>
<td>Colin Edwards</td>
<td><a href="mailto:colin@recursivepenguin.com">colin@recursivepenguin.com</a></td>
</tr>
<tr>
<td>Colin Kennedy</td>
<td><a href="mailto:moshen.colin@gmail.com">moshen.colin@gmail.com</a></td>
</tr>
<tr>
<td>Colin Nelson</td>
<td><a href="mailto:colnnelson@gmail.com">colnnelson@gmail.com</a></td>
</tr>
<tr>
<td>Colin Rice</td>
<td><a href="mailto:clr@gmail.com">clr@gmail.com</a></td>
</tr>
<tr>
<td>Conrad Irwin</td>
<td><a href="mailto:conrad.irwin@gmail.com">conrad.irwin@gmail.com</a></td>
</tr>
<tr>
<td>Conrad Meyer</td>
<td><a href="mailto:cemeyer@cs.washington.edu">cemeyer@cs.washington.edu</a></td>
</tr>
<tr>
<td>Conrado Gouvea</td>
<td><a href="mailto:conradoplgl@gmail.com">conradoplgl@gmail.com</a></td>
</tr>
<tr>
<td>Constantin Konstantinidis</td>
<td><a href="mailto:constantinkonstantinidis@gmail.com">constantinkonstantinidis@gmail.com</a></td>
</tr>
<tr>
<td>Corey Thomasson</td>
<td><a href="mailto:ethom.lists@gmail.com">ethom.lists@gmail.com</a></td>
</tr>
<tr>
<td>Cosmos Nicolaou</td>
<td><a href="mailto:cnicolaou@gmail.com">cnicolaou@gmail.com</a></td>
</tr>
<tr>
<td>Costin Chirvasuta</td>
<td><a href="mailto:ctit@gmail.com">ctit@gmail.com</a></td>
</tr>
<tr>
<td>Craig Citro</td>
<td><a href="mailto:craigcitro@gmail.com">craigcitro@gmail.com</a></td>
</tr>
<tr>
<td>Cristian Staretu</td>
<td><a href="mailto:unclejacksons@gmail.com">unclejacksons@gmail.com</a></td>
</tr>
<tr>
<td>Cuihtlauac ALVARADO</td>
<td><a href="mailto:cuihtlauac.alvarado@orange.com">cuihtlauac.alvarado@orange.com</a></td>
</tr>
<tr>
<td>Cyril Schumacher</td>
<td><a href="mailto:cyril@schumacher.fm">cyril@schumacher.fm</a></td>
</tr>
<tr>
<td>Daisuke Fujita</td>
<td><a href="mailto:dtanshi45@gmail.com">dtanshi45@gmail.com</a></td>
</tr>
<tr>
<td>Daker Fernandes Pinheiro</td>
<td><a href="mailto:daker.fernandes.pinheiro@intel.com">daker.fernandes.pinheiro@intel.com</a></td>
</tr>
<tr>
<td>Damian Gryski</td>
<td><a href="mailto:dgryski@gmail.com">dgryski@gmail.com</a></td>
</tr>
<tr>
<td>Damien Lespiau</td>
<td><a href="mailto:damien.lespiau@gmail.com">damien.lespiau@gmail.com</a></td>
</tr>
<tr>
<td>Damien Mathieu</td>
<td><a href="mailto:42@dmathieu.com">42@dmathieu.com</a></td>
</tr>
<tr>
<td>Damien Neil</td>
<td><a href="mailto:dneil@google.com">dneil@google.com</a></td>
</tr>
<tr>
<td>Damien Tournoud</td>
<td><a href="mailto:damien@platform.sh">damien@platform.sh</a></td>
</tr>
<tr>
<td>Dan Ballard</td>
<td><a href="mailto:dan@mindstab.net">dan@mindstab.net</a></td>
</tr>
<tr>
<td>Dan Caddigan</td>
<td><a href="mailto:goldcaddy77@gmail.com">goldcaddy77@gmail.com</a></td>
</tr>
<tr>
<td>Dan Callahan</td>
<td><a href="mailto:dan.callahan@gmail.com">dan.callahan@gmail.com</a></td>
</tr>
<tr>
<td>Dan Harrington</td>
<td><a href="mailto:harringtond@google.com">harringtond@google.com</a></td>
</tr>
<tr>
<td>Dan Jacques</td>
<td><a href="mailto:dnj@gmail.com">dnj@gmail.com</a></td>
</tr>
<tr>
<td>Dan Johnson</td>
<td><a href="mailto:computerdruid@gmail.com">computerdruid@gmail.com</a></td>
</tr>
<tr>
<td>Dan Peterson</td>
<td><a href="mailto:dpiddy@gmail.com">dpiddy@gmail.com</a></td>
</tr>
<tr>
<td>Dan Pupius</td>
<td><a href="mailto:dan@medium.com">dan@medium.com</a></td>
</tr>
<tr>
<td>Dan Sinclair</td>
<td><a href="mailto:dan.sinclair@gmail.com">dan.sinclair@gmail.com</a></td>
</tr>
<tr>
<td>Daniel Cormier</td>
<td><a href="mailto:danielc@knowbe4.com">danielc@knowbe4.com</a></td>
</tr>
<tr>
<td>Danil de Kok</td>
<td><a href="mailto:me@danieldk.eu">me@danieldk.eu</a></td>
</tr>
<tr>
<td>Daniel Fleischman</td>
<td><a href="mailto:danielfleischman@gmail.com">danielfleischman@gmail.com</a></td>
</tr>
<tr>
<td>Daniel Ingram</td>
<td><a href="mailto:ingramds@appstate.edu">ingramds@appstate.edu</a></td>
</tr>
<tr>
<td>Daniel Johansson</td>
<td><a href="mailto:dajo2002@gmail.com">dajo2002@gmail.com</a></td>
</tr>
</tbody>
</table>
Evan Shaw <chickencha@gmail.com>
Evgeniy Polyakov <zbr@iorem.net>
Ewan Chou <coocood@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedf@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahrir <fshahrir@gmail.com>
Federico Bond <federicobond@gmail.com>
Federico Simoncelli <fisimonce@redhat.com>
Fedor Indutny <fedor@indutny.com>
Fedor Korotkiy <dartslon@gmail.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Bnemann <Felix.Buenemann@gmail.com>
Felix Geisendrfer <haimuiba@gmail.com>
Felix Kollmann <fk@konsorten.de>
Filip Gruszczynski <gruszcy@gmail.com>
Filip Haglund <drathier@users.noreply.github.com>
Filip Stanis <fstanis@google.com>
Filippo Valsorda <filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Forster <octo@gmail.com>
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francesco Renzi <rentziass@gmail.com>
Francisco Claude <fclaude@recovered.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscosouza@gmail.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <fsomers@arista.com>
Frederic Guillot <fberic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <fberik.ring@gmail.com>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
Hsin Tsao <tsao@google.com>
Hsin-Ho Yeh <yhh92u@gmail.com>
Hu Keping <hukeping@huawei.com>
Hugues Bruant <hugues.bruant@gmail.com>
Huy Le <huy.dinh.le.89@gmail.com>
Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>
Ian Cottrell <iancottrell@google.com>
Ian Davis <nospam@ianandavis.com>
Ian Gudger <ian@loosescre.ws>
Ian Haken <ihaken@netflix.com>
Ian Kent <iankent85@gmail.com>
Ian Lance Taylor <iant@golang.org>
Ian Leue <ian@appboy.com>
Ian Zapolsky <ianzapolsky@gmail.com>
Ibrahim AshShohail <ibra.sho@gmail.com>
Icarus Sparry <golang/icarus.freeuk.com>
Iccha Sethi <icchasethi@gmail.com>
Idora Shinatose <idora.shinatose@gmail.com>
Igor Bernstein <igorberstein@gmail.com>
Igor Dolzhikov <bluesriverz@gmail.com>
Igor Vashyst <ivashyst@gmail.com>
Igor Zhilianin <igor.zhilianin@gmail.com>
Ilyya Yalovyy <yalovoy@gmail.com>
Ilya Tocar <ilya.tocar@intel.com>
INADA Naoki <songofacandy@gmail.com>
Inanc Gumus <m@inanc.io>
Ingo Gottwald <in.gottwald@gmail.com>
Ingo Krabbe <ikrabbe.ask@gmail.com>
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>
Ioannis Georgoulas <geototti21@hotmail.com>
Irfan Sharif <irfanmahmoudsharif@gmail.com>
Irieda Noboru <irieda@gmail.com>
Isaac Ardis <isaac.ardis@gmail.com>
Isaac Wagner <ibw@isaacwagner.me>
Iskander Sharipov <iskander.sharipov@intel.com> <quasilyte@gmail.com>
Issac Trotts <issactrotts@google.com>
Ivan Babrou <ivan@cloudflare.com>
Ivan Bertona <ivan.bertona@gmail.com>
Ivan Krasin <krasin@golang.org>
Ivan Kutuzov <arbrix@gmail.com>
Ivan Markin <sw@nogoest.net>
Ivan Moscoso <moscoso@gmail.com>
Ivan Osadchyi <ivan.osadchii@gmail.com>
Ivan Sharavuev <shpiwan@gmail.com>
Ivan Ukhov <ivan.ukhov@gmail.com>
Ivy Evans <ivyevans.net>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>
Jack Britton <jackxbritton@gmail.com>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonardo Comelli <leonardo.comelli@gmail.com>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louis.k@gmail.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@gmail.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmnwilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@gmail.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishsmail@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freiheit.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@graalbio.com>
Marius Nuenerich <mnu@gmail.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Glines <mark@glines.org>
Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@gmail.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Bertschler <imbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kunc <martinkunc@users.noreply.github.com>
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
Paul Tyng <paul@paultyng.net>
Paul van Brouwershaven <paul@vanbrouwershaven.com>
Paul Wankadia <junyer@google.com>
Paulo Casaretto <pcasaretto@gmail.com>
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ymkns@gmail.com>
Pawel Knap <pawelknap88@gmail.com>
Pawel Szczur <filemon@google.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@google.com>
Peter Conerly <pconerly@gmail.com>
Peter Dotchev <dotchev@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@google.com>
Peter Hoyes <pahoyes@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@google.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Peter Sunyi <speter.go1@gmail.com>
Peter Szab <pts@google.com>
Peter Szilgyi <peterke@gmail.com>
Peter Teichman <psteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petr Jedin <petr.jedin@gmail.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Borgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <spkwarrren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephani <phst@google.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@helloworldpro>
Pieter Droogendijk <pieter@bink.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Varanasi <prashant@prashantv.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Pure White <wu.purewhite@gmail.com>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <slsh1022@gmail.com>
Quan Tran <qued.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Raif S. Naifah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Raph Levien <raph@google.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Ravil Bikubulatov <sweeellz12@gmail.com>
RaviTeja Pothana <ravi.tezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Raymond Kazlauskas <raimay220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Open Source Used In HyperFlex HX Data Platform 5.0(2a)  13255

Teague Cole <tncl443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjalics@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tantant <acsishift@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talon.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@google.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@google.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@google.com>
Thomas Kappler <kappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tianon Gravi <admwiggin@gmail.com>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>
Tim Henderson <tim.tadh@gmail.com>
Tim Hockin <thockin@gmail.com>
Tim Swast <swast@google.com>
Tim Wright <tenortim@gmail.com>
Tim Xu <xiaoxubeii@gmail.com>
Timo Savola <timosavola@gmail.com>
Timo Truyts <alkaloid.btx@gmail.com>
Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@google.com>
Tobias Assarsson <tobias.assarsson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <stobias.columbus@googlemail.com>
Tobias Klauser <tklauser@distanz.ch>
Toby Burrell <kurin@gmail.com>
Todd Kulesza <tkulesza@gmail.com>
Todd Neal <todd@tmeal.org>
Todd Wang <toddwang@gmail.com>
Tom Anthony <git@tomanthony.co.uk>
Yuji Yaginuma <yuji.yaginuma@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yugui Sonoda <yugui@google.com>
Yukihiro Nishinaka <6elpinal@gmail.com>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gershman <zachgersh@gmail.com>
Zach Jones <zachj1@gmail.com>
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1.1238 cryptography 1.8.1
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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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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.

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

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

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

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

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the 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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this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

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

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

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   b) 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 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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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.

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1.1243 python-defaults 3.5.1-3
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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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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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include/GL/gl.h :

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include/GL/glxext.h
include/GL/wglxext.h :

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**1.1253 urllib3 1.25.11**

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## 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/@WBR5RlBZDhBFXQB6/>  
  * Code review, PEP8 compliance, benchmark fix

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

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.
* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

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

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

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

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

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

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

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

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

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

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

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

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters
* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

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

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

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

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

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

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

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

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

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

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

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

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

* Evgeny Kapun <abacababadabacaba@gmail.com>
  * Bugfixes

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

* Shivam 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.skytt@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 vendoring

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

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

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

* Akamai (through 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]

---

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guarantee element specifies that the communication between client and server should be NONE, INTEGRAL, or CONFIDENTIAL. NONE means that the application does not require any transport guarantees. A value of INTEGRAL means that the application requires that the data sent between the client and server be sent in such a way that it can't be changed in transit. CONFIDENTIAL means that the application requires that the data be transmitted in a fashion that prevents other entities from observing the contents of
the transmission. In most cases, the presence of the INTEGRAL or CONFIDENTIAL flag will indicate that the use of SSL is required.

Found in path(s):
* /opt/cola/permits/1000764326_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/web-app_2_2.dtd

1.1255 commons-logging 1.2
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Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogFactory.java
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 */

Found in path(s):
  */opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  Jar/org/apache/commons/logging/LogConfigurationException.java
  */opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  Jar/org/apache/commons/logging/impl/Log4JLogger.java
  */opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  Jar/org/apache/commons/logging/impl/LogFactoryImpl.java
  */opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  Jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
  */opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  Jar/org/apache/commons/logging/impl/SimpleLog.java
  */opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  Jar/org/apache/commons/logging/impl/Jdk14Logger.java
  */opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  Jar/org/apache/commons/logging/LogSource.java
  */opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  Jar/org/apache/commons/logging/impl/NoOpLog.java
  */opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  Jar/org/apache/commons/logging/impl/LogKitLogger.java
  */opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  Jar/org/apache/commons/logging/Log.java

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1.1257 boost 1.58.0+dfsg 5ubuntu3.1

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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 <cstdint>
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_cv
{  typedef  T type;   };

} // namespace detail
} // namespace intrusive
} // namespace boost

#include <boost/intrusive/detail/config_end.hpp>
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>
    struct is_convertible  
    {  
        static const bool value = __is_convertible_to(T, U);  
    };
#endif
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
struct eval_if_c<
    typename C,
    typename T1,
    typename T2
>:
    if_c<C,T1,T2>::type
{};

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

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

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

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

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

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

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

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

    struct empty_helper_t2
    { int i[256]: }; public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

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

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

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
template <typename T> struct unvoid_ref { typedef T &type; };
template <> struct unvoid_ref<void> { struct type_impl { }; typedef type_impl & type; };
template <> struct unvoid_ref<const void> { struct type_impl { }; typedef type_impl & type; };

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME) \ 
    template <typename T, typename DefaultType> \ 
    struct boost_intrusive_default_type_##TNAME \ 
    { \ 
        template <typename X> \ 
        static char test(int, typename X::TNAME*); \ 
        \ 
        template <typename X> \ 
        static int test(...); \ 
        \ 
        struct DefaultWrap { typedef DefaultType TNAME; }; \ 
        \ 
        static const bool value = (1 == sizeof(test<T>(0, 0))); \ 
        \ 
        typedef typename \ 
        ::boost::intrusive::detail::if_c \ 
            <value, T, DefaultWrap>::type::TNAME type; \ 
    }; \ 

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

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

< 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

#endif

#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;
    };

#endif

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME)

template <typename U, typename Signature> 

class TRAITS_NAME 
{

private:

    template<Signature> struct helper;

    template<typename T> 
    static ::boost::intrusive::detail::yes_type check(helper<&T::FUNC_NAME>*);

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

public: 

    static const bool value = sizeof(check<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);
};

#endif

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) 

template <typename Type>
struct TRAITS_NAME
{

struct BaseMixin
{

    void FUNC_NAME();
};

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

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

template <typename U>
static ::boost::intrusive::detail::no_type  check(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0);\
static ::boost::intrusive::detail::yes_type check(...);\
static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(check((Base*)(0)));\
}\

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME)\
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)\
\
//

template <typename Type, class>
struct TRAITS_NAME\
    : public TRAITS_NAME##_ignore_signature<Type>\
{};

//

template <typename T>
inline T* addressof(T& obj)
{
    return static_cast<T*>(
        static_cast<void*>(
            reinterpret_cast<const char&>(obj))
    )
};

} //namespace intrusive
} //namespace boost

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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

Purely as an implementation detail, this means that the code for integral constant types inherits from the boost and mpl libraries.

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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(\'\d\')
if author != 'fix-copyright.py':
    yield author, datetime.strptime(date, '\%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '[0]' if start.year == end.year else '[0]-[1]'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
    return map(itemgetter(1), sorted(f()))

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

    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in lines:
                for repl in new:
                    print >>f, prefix + repl
            else:
print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

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

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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#include <boost/algorithm.hpp>
#include <boost/config.hpp>
#include <boost/detail/workaround.hpp>
#include <cstddef>
namespace boost {
namespace container {
namespace container_detail {

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

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

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

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

typedef true_ true_type;
typedef false_ false_type;

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

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

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

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

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

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

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

template <class T, class U>
struct is_convertible
{

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

#endif

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

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

template<
    typename T1 , typename T2 , typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};
template <class Pair>
struct select1st
{
    typedef Pair argument_type;
    typedef typename Pair::first_type result_type;

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

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

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

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

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

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

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

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

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

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

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

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. A1 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@mitaiemtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darwin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (efb@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganauge (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrvi (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystallearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjinnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenson57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rriversa/acm.org)
Robert Ramey (ramey@www.rrsd.com)
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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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#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;
};

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

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

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

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

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

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

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

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

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

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

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

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

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

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

All the value based traits in this library conform to MPL's requirements for an [Integral Constant type](../../../../libs/mpl/doc/refmanual/integral-constant.html): that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`)

Boost.Geometry (aka GGL, Generic Geometry Library)

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agmaMPPL Interoperability]

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BOOST_INTERPROCESS_DETAIL_MPL_HPP

//ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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http://www.boost.org/LICENSE_1_0.txt)
#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

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

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

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

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();
std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output.");
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

os <<
    "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">\n"
    "<html>\n"
    "<head>\n"
    "<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

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

os <<
    "</H1>\n"
    "<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)
        ""></a>\n"
++i;
}
os << "<a href="#files">Files with no recognised license</a>\n"
"<a href="#authors">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
    os <<
    "Moving to the Boost Software License...\n"
    "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>\n"
    "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>\n"
    "<a href="#not-to-bsl">Files that cannot be moved to the Boost Software License</a>\n"
    "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>\n"
    "<a href="#copyright">Copyright Holder Information</a>\n";
}
    os <<
    "<a href="#depend">File Dependency Information</a>\n"
"</pre>";

//
// input Information:
//
os << "<a name="input"></a><h2>Input Information</h2>
";
if(m_scan_mode)
    os << "<p>The following files were scanned for boost dependencies:<br>
";
else
    os << "<p>The following Boost modules were checked:<br>
";
std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>";
    ++si;
}
    os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>
";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^\[[:blank:]*\]*\#\[[:blank:]*\]*define\[[:blank:]*\]+BOOST_VERSION\[[:blank:]*\]+(\d+);\n" boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100 << "</p>";"
// 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>\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>\n";
    while(i != j)
    {
        // title:
        os <<
            "<H3><A name="" make_link_target(licenses.first[i->first].license_name)"</a>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        if(!m_bsl_summary_mode || (license_index >= 3))
        {
            // Copyright holders:
            os << "</P><\blockquote>\n";
            std::set<std::string>::const_iterator x, y;
            //...
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
    os << *x << "<BR>
    ++x;
}
os << "</P></BLOCKQUOTE>\n";
// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:
\n<BLOCKQUOTE><P>";
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>\n;
    ++m;
}
os << "</P></BLOCKQUOTE>\n";
} else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
// Output list of files not found to be under license control:
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>\n";
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</P>\n";
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>\n"
    +++i2;
}
os << "</P></BLOCKQUOTE>";
// Output list of files with no found copyright holder:
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>\n"
The following \( \langle m\text{\_unknown\_authors.size()} \rangle \) files had no recognisable copyright holder:

\begin{verbatim}
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>

The following \( \langle m\text{\_converted\_to\_bsl\_size()} \rangle \) files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

\begin{verbatim}
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)
        << "] File: <tt>" << split_path(m\_boost\_path, i\_first)
        << "] File: <tt>" << split_path(m\_boost\_path, i\_first)
        \begin{table}
        \begin{tabular}{|l|l|}
        \hline
        \texttt{<tt>"} & \texttt{<tt>"} \\
        \hline
        \end{tabular}
        \end{table}
        ++i;
        ++file\_num;
    }
}

// Output list of files that could be moved over to the Boost Software License

os << "<h2><a name="to\-bsl"></a>Files that could be converted to the Boost Software License</h2>

The following \( \langle m\text{\_can\_migrate\_to\_bsl\_size()} \rangle \) files could be manually converted to the Boost Software License, but have not yet been:

\begin{verbatim}
if (!m\_can\_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\_migrate\_to\_bsl\_begin(),
    ie = m\_can\_migrate\_to\_bsl\_end();
    int file\_num = 1;
    while (i != ie)
    {
        os << "<P>["] File: <tt>" << split_path(m\_boost\_path, i\_first)
        << "] File: <tt>" << split_path(m\_boost\_path, i\_first)
        << "] File: <tt>" << split_path(m\_boost\_path, i\_first)
        \end{verbatim}
os << split_path(m_boost_path, *i2) << "<br">
++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
"<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><BLOCKQUOTE><P>
"i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
os << split_path(m_boost_path, *i2) << "<br>
++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"<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>
";
}
Open Source Used In HyperFlex HX Data Platform 5.0(2a)  13514

++ad;
}
os << "</table><n>"
;
}

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

    os << "</body></html>\n";

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

### 1.1258 javax-ws-rs-api 2.1.1

### 1.1259 jmockit 1.48

#### 1.1259.1 Available under license:
No license file was found, but licenses were detected in source scan.

```text
/*
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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1034574593_1588849532.42/0/jmockit-1-48-sources-
```
Open Source Used In HyperFlex HX Data Platform 5.0(2a) 13522

* /opt/ws_local/PERMITS_SQL/1034574593_1588849532.42/0/jmockit-1-48-sources-jar/mockit/internal/expectations/TestOnlyPhase.java
* /opt/ws_local/PERMITS_SQL/1034574593_1588849532.42/0/jmockit-1-48-sources-jar/mockit/coverage/data/CoverageData.java
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1.1261 eventlog 0.2.12-7

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The original source can always be found at:
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Upstream Author: Scheidler Balazs <bazsi@balabit.hu>

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1.1262 libvmtools 10.0.7.52125 (build-3227872)

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1.1264 wsdl4j 1.6.3

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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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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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The punycode implementation is based on the sample code in RFC 3492

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  <PropertyGroup>
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  </PropertyGroup>
  <ItemGroup>
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    <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" />
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https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbenc
h/SoDBench.cs#L738
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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 <mjb@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
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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 = -fPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REUSE
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 "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

### 1.1276 system-data-sqlclient 4.0.30319.17929

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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
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** Rick Grehan, BYTE Magazine

**

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorg.uku.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

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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_nicstart() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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M. Welsh, 6 July 1996

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for their continuing work on the DVB driver

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

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

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Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
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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

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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: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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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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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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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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1.1289 gtk 2.24.30-1ubuntu1

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

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

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

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

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

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

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
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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 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
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Version 2.1, February 1999

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Preamble

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

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

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

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

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

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

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

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

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

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

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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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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.

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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
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Library will still fall under Section 6.)

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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
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1.1290 urllib3 1.13.1

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## 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>
  * 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

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  * 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.

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  * 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

* 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.

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  * 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.

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  * IPv6 bugfixes in testsuite

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  * 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]

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Bogdan Piloca <boo@google.com>
Chandler Carruth <chandlerc@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
Dean Sturtevant
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Paneendra Ba <paneendra@google.com>
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Sverre Sundsdal <sundsdal@gmail.com>
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### xwd v1.0.7

#### xwd utility

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## zlib v1.2.11

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jlp@gzip.org          madler@alumni.caltech.edu

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included without limitation in the term "modification".)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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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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1.1302 jackson 2.11.0

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1.1304 jakarta-ws-rs-api 2.1.6

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   jar/com/google/gson/internal/UnsafeAllocator.java

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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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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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ASN.1 library for Python

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

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Abstract Syntax Notation One (`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 [here](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` [here](https://developers.google.com/protocol-buffers/) or `FlatBuffers` [here](https://google.github.io/flatbuffers/), for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

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

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

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

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

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

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

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

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

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

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

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

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
-------

.. toctree::
   :maxdepth: 2

/example-use-case

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

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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.
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Getting help


Books on ASN.1

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

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

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


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


If you are working with ASN.1, we'd highly recommend reading a proper
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
```

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

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
```
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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 */

For the lib/py/compat/win32/stdint.h:

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleReader.java
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* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleOperations.java

1.1325 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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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Peter Allworth <linsol at zeta dot org dot au>,
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Lars Marowsky-Bree <lmb at suse dot de>,
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1.1337 e2fsprogs 1.42.13 1ubuntu1.2

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

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-
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Theodore Ts'o
23-June-2007

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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): $(OBJ)
(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) $(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:
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Gadi Oxman, August 1995

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From strings/apr_strnatcmp.c, include/apr_strings.h:

    strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.1343 jaxb-api 2.2.11

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@example
one line to give the program's name and a brief idea of what it does.
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@end example

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
program Copyright (C) year 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
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@c man end

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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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That's all there is to it!
BEGIN{
FS=\"\";
p髡 */ * Do not modify this file!! It is created automatically";
p髡 " by copying.awk. Modify copying.awk instead. <<= */";
p髡 "
p髡 "#include \"defs.h\"
p髡 "#include \"command.h\"
p髡 "#include \"gdbcmd.h\"
p髡 "
p髡 "static void show_copying_command (char *, int);"
p髡 "
p髡 "static void show_warranty_command (char *, int);"
p髡 "
p髡 "void _initialize_copying (void);

printf ("%s\n", $NF);

NR == 1 / Star 15. Disclaimer of Warranty\$\$
if ($0 ~ //)
{
  printf (" printf_filtered (\"\n\n\n\n"; 
}
else if ($0 !~ // Star 15. Disclaimer of Warranty\$\$
{
  printf (" printf_filtered (\"\n\n\n\n";
    for (i = 1; i < NF; i++)
    printf("%s\n", $i);
    printf("%s\n\n\n\n", $NF;

Disclaimers

/* [ ]*15. Disclaimer of Warranty\[ ]*$/
print " immediate_quit--;"
print "}";
print ""
print "static void"
print "show_warranty_command (char *ignore, int fromTTY)"
print "{";
print " immediate_quit++;"
}
END

END

void
_initialize_copying (void)
{
  add_cmd ("copying", no_class, show_copying_command,
           _("Conditions for redistributing copies of GDB."),
           &showlist);
  add_cmd ("warranty", no_class, show_warranty_command,
           _("Various kinds of warranty you do not have."),
           &showlist);
}
END

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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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@end iftex
@ifinfo
@end ifinfo

@page
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```python
#! /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.
    start2: 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).
    ""
          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", "fdl.texi", "gpl.texi", "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-hp/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/configure.ac",
"../sim/common/configure.ac", "../sim/configure.ac",
"../sim/cr16/configure.ac", "../sim/cris/configure.ac",
"../sim/d10v/configure.ac", "../sim/erc32/configure.ac",
"../sim/frv/configure.ac", "../sim/h8300/configure.ac",
"../sim/igen/configure.ac", "../sim/iq2000/configure.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/d10v-elf/t-rdt.s",
"../testsuite/d10v-elf/t-rep.s",
"../testsuite/d10v-elf/t-rie-xx.s",
"../testsuite/d10v-elf/t-rte.s",
"../testsuite/d10v-elf/t-sac.s",
"../testsuite/d10v-elf/t-sachi.s",
"../testsuite/d10v-elf/t-sadd.s",
"../testsuite/d10v-elf/t-slae.s",
"../testsuite/d10v-elf/t-sp.s",
"../testsuite/d10v-elf/t-sub.s",
"../testsuite/d10v-elf/t-sub2w.s",
"../testsuite/d10v-elf/t-subi.s",
"../testsuite/d10v-elf/t-trap.s",
"../testsuite/frv-elf/cache.s",
"../testsuite/frv-elf/exit47.s",
"../testsuite/frv-elf/grloop.s",
"../testsuite/frv-elf/hello.s",
"../testsuite/frv-elf/loop.s",
"../testsuite/m32r-elf/exit47.s",
"../testsuite/m32r-elf/hello.s",
"../testsuite/m32r-elf/loop.s",
"../testsuite/sim/cris/hw/rv-n-cris/quit.s",
"../testsuite/sim/h8300/addb.s",
"../testsuite/sim/h8300/addl.s",
"../testsuite/sim/h8300/adds.s",
"../testsuite/sim/h8300/addw.s",
"../testsuite/sim/h8300/addx.s",
"../testsuite/sim/h8300/andb.s",
"../testsuite/sim/h8300/andl.s",
"../testsuite/sim/h8300/andw.s",
"../testsuite/sim/h8300/band.s",
"../testsuite/sim/h8300/bfld.s",
"../testsuite/sim/h8300/biand.s",
"../testsuite/sim/h8300/bra.s",
"../testsuite/sim/h8300/brabc.s",
"../testsuite/sim/h8300/bset.s",
"../testsuite/sim/h8300/cmplb.s",
"../testsuite/sim/h8300/cmpl.s",
"../testsuite/sim/h8300/cmpw.s",
"../testsuite/sim/h8300/daa.s",
"../testsuite/sim/h8300/das.s",
"../testsuite/sim/h8300/dec.s",
"../testsuite/sim/h8300/div.s",
"../testsuite/sim/h8300/extl.s",
"../testsuite/sim/h8300/extend.s",
"../testsuite/sim/h8300/inc.s",
"../testsuite/sim/h8300/jmp.s",
"../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/movl.s",
"../sim/testsuite/sim/h8300/movmd.s",
"../sim/testsuite/sim/h8300/movsd.s",
"../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/rot.r.s",
"../sim/testsuite/sim/h8300/rotlx.l.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/subx.s",
"../sim/testsuite/sim/h8300/tas.s",
"../sim/testsuite/sim/sh/add.s",
"../sim/testsuite/sim/sh/and.s",
"../sim/testsuite/sim/sh/bandor.s",
"../sim/testsuite/sim/sh/bandornot.s",

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"../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/fcmpeq.s",
"../sim/testsuite/sim/sh/fcmpgt.s",
"../sim/testsuite/sim/sh/fcnvds.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/float.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/fschg.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/pmuls.s",
"../sim/testsuite/sim/sh/prnd.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/psubb.s",
"../sim/testsuite/sim/sh/pshar.s",
"../sim/testsuite/sim/sh/pshl.pop.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/shl.r.s",
"../sim/testsuite/sim/sh/shl16.r.s",
"../sim/testsuite/sim/sh/shl2.r.s",
"../sim/testsuite/sim/sh/shl8.r.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"
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"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/testutils.inc",
"../sim/testsuite/sim/cris/hw/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" : ADA_COMMENT,
  "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.*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
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].find(' ')
    if space_index < 0:  # No space in the first max_len characters??
        # Split at the first space, then...
        space_index = comment.rfind(' ')
    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('
' + indent)
else:
dst.write(' ')
dst.write(owner_part + '
')

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

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

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

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

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

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

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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!
1.1347 gpm 1.20.4 6.1  
1.1347.1 Available under license:

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Version 3, 29 June 2007


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

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it:

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users’ freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this
provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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.

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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.

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.

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

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

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

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

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

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

The Corresponding Source for a work in source code form is that same work.

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that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

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

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

6. Conveying Non-Source Forms.

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

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that
supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

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

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

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/internal/LazilyParsedNumber.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/internal/ConstructorConstructor.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/internal/bind/TimeTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/UnsafeAllocator.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/TreeTypeAdapter.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/JsonSyntaxException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/Streams.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/LongSerializationPolicy.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonStreamParser.java
1.1352 jjwt 0.9.1

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* /opt/cola/permits/1227291717_1636733529.67/0/jjwt-0-9-1-jar/META-INF/maven/io.jsonwebtoken/jjwt/pom.xml

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Manifest-Version: 1.0
Export-Package: io.jsonwebtoken;version="0.9.1",io.jsonwebtoken.lang;version="0.9.1"
Implementation-Title: JSON Web Token support for the JVM
Implementation-Version: 0.9.1
Built-By: lhazlewood
Tool: Bnd-3.3.0.201609221906
Bundle-Name: JSON Web Token support for the JVM
Created-By: Apache Maven Bundle Plugin
Implementation-URL: https://github.com/jwtk/jjwt
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Implementation-Vendor-Id: io.jsonwebtoken
Bundle-Version: 0.9.1
Build-Jdk: 1.7.0_80
Bnd-LastModified: 1530831044984
Bundle-ManifestVersion: 2
Specification-Title: JSON Web Token support for the JVM
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-Description: Sonatype helps open source projects to set up Maven repositories on https://oss.sonatype.org/
1.1353 open-ldap 2.4.42+dfsg-2ubuntu3.13

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1.1354 libogg 1.3.2 1

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1.1355 hk2-utils 2.4.0-b34

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Found in path(s):
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/ProxyFactory.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/Compiler.java
Jar/javassist/bytecode/stackmap/TypedBlock.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/compiler/KeywordTable.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist/LoaderClassPath.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist/compiler/KeywordTable.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist/tools/reflect/CanNotReflectException.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/compiler/Lex.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/compiler/ast/FieldDecl.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/ConstantAttribute.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/tools/reflect/CanNotReflectException.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/tools/proxy/SecurityActions.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
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* /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-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
jar/javassist/bytecode/annotation/ByteMemberValue.java

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1.1358 lftp 4.6.3a-1build2
1.1358.1 Available under license:

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Nicols Lichtmaier <nick@debian.org> on Sat, 5 Apr 1997 16:56:35 -0300
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1.1360 binutils 2.26.1-
1ubuntu1~16.04.8+esm1
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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, decrestation, 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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      (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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@end enumerate

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1.1361 scowl 7.1-1

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major
contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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3449 Martha Ct.
Arcata, CA 95521-4884

grady@netcom.com
grady@northcoast.com

The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English Wordlist With Frequency Classification" word list as it seems to be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filespace called PUBLIC on the University mainframe, because it was considered public domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?
That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

The 35 level includes frequency classes 2-6 and words appearing in at least 11 of 12 dictionaries as indicated in the 12Dicts package. All words from the 12Dicts package have had likely inflections added via my inflection database.

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The 40 level includes words from Alan's 3esl list found in version 4.0 of his 12dicts package. Like his other stuff the 3esl list is also in the
public domain.

The 50 level includes Brian's frequency class 1, words words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files form the Census report is a government document which I don't think can be copyrighted.

The file special-jargon.50 uses common.lst and word.lst from the "Unofficial Jargon File Word Lists" which is derived from "The Jargon File". All of which is in the Public Domain. This file also contain a few extra UNIX terms which are found in the file "unix-terms" in the special/ directory.

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.

The 60 level includes all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package.

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.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package, and the 10,196 places list from the MWords package.

The ENABLE package, mainted by M\Cooper <thegrendel@theriver.com>, is in the Public Domain:

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Accent information was taken from UKACD.

My VARCON package was used to create the American, British, and Canadian word list.

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The author has also released the source code to "anagram" and "multi" (multiple word anagram) into the Public Domain. He had previously posted these utilities on the "alt.sources" newsgroup in shar archive form.

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1.1362 bcel 2.7.2

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*/
/
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
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>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */
public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd] <B>D</B><n>nn</n>"</CODE>.
 */

* 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
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;
    } }
```

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*/
/**
 * 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
 */
```

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jar/org/apache/xml/utils/StopParseException.java
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 */

/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
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
* \(<\text{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
* \(<\text{CODE}>"<B>Serializer</B> <B>Java</B> v.r[.dd] <B>D</B><B>/nn">\</CODE>\).
* 
* 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: 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@;
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
* /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, Dmitry" <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
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xslt/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/HTMLEntities.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.xsltcompiler;

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.xalan.xslt.DOM;
import org.apache.xalan.xslt.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

parser code {
/**
 * Used by function calls with no args.
static public final Vector EmptyArgs = new Vector(0);

static public final VariableRef DummyVarRef = null;

private Parser _parser;
private XSLTC _xsltc;

private String _expression;

private int _lineNumber = 0;

private SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * 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) {
    int nodeType;
    if (test == null) { // "*"
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                 (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
        return new StepPattern(axis, nodeType, predicates);
    } else if (test instanceof Integer) {
        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 =
        }
    }
}

_xsltc.setMultiDocument(flag);

if (test == null) { // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
             (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    return new StepPattern(axis, nodeType, predicates);
} else if (test instanceof Integer) {
    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)));
    }

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);
}

return result;

}

public int findNodeType(int axis, Object test) {
    if (test == null) {  // *
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
            : (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }

    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("*")) {
            return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
                : NodeTest.ELEMENT;
        } else if (local.equals("@*")) {
            return NodeTest.ATTRIBUTE;
        }
    }

    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
 *                   compiled in a separate module.
 */
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
 * nodes 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 Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
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
:: RESULT = qn; ::;

ChildOrAttributeAxisSpecifier ::= ATSIGN
:: RESULT = new Integer(Axis.ATTRIBUTE); ::

| CHILD DCOLOM
:: RESULT = new Integer(Axis.CHILD); ::

| ATTRIBUTE DCOLOM
:: 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: pe VBAR UnionExpr: rest |
|:{ RESULT = new UnionPathExpr(pe, rest); :} |

PathExpr ::= LocationPath: lp |
|:{ RESULT = lp; :} |

| FilterExpr: fexp |
|:{ RESULT = fexp; :} |

| FilterExpr: fexp SLASH RelativeLocationPath: rlp |
|:{ RESULT = new FilterParentPath(fexp, rlp); :} |
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);
    } 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);
    }
:}

| NodeTest:ntest Predicates:pp
{: 

if (ntest instanceof Step) {
    Step step = (Step) ntest;
    step.addPredicates(pp);
    RESULT = (Step) ntest;
} else {
    RESULT = new Step(Axis.CHILD,
                        parser.findNodeType(Axis.CHILD, ntest), pp);
}

<table>
<thead>
<tr>
<th>AxisSpecifier: axis NodeTest: ntest Predicates: pp</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESULT = new Step(axis.intValue(),</td>
</tr>
<tr>
<td>parser.findNodeType(axis.intValue(), ntest), pp);</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>AxisSpecifier: axis NodeTest: ntest</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
</tr>
<tr>
<td>RESULT = new Step(axis.intValue(),</td>
</tr>
<tr>
<td>parser.findNodeType(axis.intValue(), ntest), null);</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>AbbreviatedStep: abbrev</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
</tr>
<tr>
<td>RESULT = abbrev; :;</td>
</tr>
</tbody>
</table>

AxisSpecifier ::= AxisName: an DCOLON
| : RESULT = an; : |

<table>
<thead>
<tr>
<th>ATSIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = new Integer(Axis.ATTRIBUTE); :;</td>
</tr>
</tbody>
</table>

AxisName ::= ANCESTOR
| : RESULT = new Integer(Axis.ANCESTOR); : |

<table>
<thead>
<tr>
<th>ANCESTORORSELF</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = new Integer(Axis.ANCESTORORSELF); :</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ATTRIBUTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = new Integer(Axis.ATTRIBUTE); :</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHILD</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = new Integer(Axis.CHILD); :</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DESCENDANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = new Integer(Axis.DESCENDANT); :</td>
</tr>
</tbody>
</table>

| DESCENDANTORSELF |
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
   { : RESULT = vr; : }

| LPAREN Expr:ex RPAREN
   { : RESULT = ex; : }

| Literal:string
   {:
     /*
     * 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);

<table>
<thead>
<tr>
<th>INT:num</th>
</tr>
</thead>
<tbody>
<tr>
<td>:</td>
</tr>
<tr>
<td>long value = num.longValue();</td>
</tr>
<tr>
<td>if (value &lt; Integer.MIN_VALUE</td>
</tr>
<tr>
<td>RESULT = new RealExpr(value);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else {</td>
</tr>
<tr>
<td>if (num.doubleValue() == -0)</td>
</tr>
<tr>
<td>RESULT = new RealExpr(num.doubleValue());</td>
</tr>
<tr>
<td>else if (num.intValue() == 0)</td>
</tr>
<tr>
<td>RESULT = new IntExpr(num.intValue());</td>
</tr>
<tr>
<td>else if (num.doubleValue() == 0.0)</td>
</tr>
<tr>
<td>RESULT = new RealExpr(num.doubleValue());</td>
</tr>
<tr>
<td>else</td>
</tr>
<tr>
<td>RESULT = new IntExpr(num.intValue());</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>
| : }

| REAL:num |
| :       |
| RESULT = new RealExpr(num.doubleValue()); : |

| FunctionCall:fc |
| :              |
| 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); |
    } |

if (node == null) {
    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);
}

}:

| 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.getName( Constants.TRANSLET_URI, "xsltc", "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("decendant"); :]

| DESCENDANTORSELF
   [: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :]

| FOLLOWING
   [: RESULT = parser.getQNameIgnoreDefaultNs("following"); :]

| FOLLOWINGSIBLING
   [: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :]

| NAMESPACE
   [: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :]

| PARENT
   [: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :]
<table>
<thead>
<tr>
<th>PRECEDING</th>
<th>{ : RESULT = parser.getQNameIgnoreDefaultNs(&quot;preceding&quot;); }</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRECEDINGSIBLING</td>
<td>{ : RESULT = parser.getQNameIgnoreDefaultNs(&quot;preceding-sibling&quot;); }</td>
</tr>
<tr>
<td>SELF</td>
<td>{ : RESULT = parser.getQNameIgnoreDefaultNs(&quot;self&quot;); }</td>
</tr>
<tr>
<td>ID</td>
<td>{ : RESULT = parser.getQNameIgnoreDefaultNs(&quot;id&quot;); }</td>
</tr>
</tbody>
</table>

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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/xpath/domapi/XPathStylesheetDOM3Exception.java
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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
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*/
/*
* $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 == '	' || c == '' || c == '
' || c == '');
  }

  /**
   * If symbol is not followed by `::` or `('), then treat it as a
   * name instead of an axis or function (Jira-1912).
   */
  Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // 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.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.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) {
    last = ss;
    return new Symbol(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);
}

}
Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED9-\u0EDF\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3011-\u3015\u309D-\u309E\u30FC-\u30FE]

NCName=(\{Letter\} \_ \{NCNameStartChar\})\{NCNameChar\}*

NCNameChar=[\{Letter\}\_\{Digit\}\_.\_\_\_\_\[\{CombiningChar\}\{Extender\}\{NCNameStartChar\}\_\[\u0300-\u036F\]\_\{HighSurrogate\}\{LowSurrogate\}]

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

"*" { return disambiguateStar(); }

"/" { return newSymbol(sym.SLASH); }

"+" { 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.DSLSlash); }

"\=" { return newSymbol(sym.EQ); }
"!= " { return newSymbol(sym.NE); }
"< " { return newSymbol(sym.LT); }
"> " { return newSymbol(sym.GT); }
"<= " { 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]+"(" { return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node"+[\t\n]+"(" { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment"+[\t\n]+"(" { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PI); }
"processing-instruction"+[\t\n]+"(" { 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()); }

null
/**
 * 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.
 */
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
*
compeleted, 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 final int DEVELOPMENT = 0;
/**
* Version String like <CODE>"<B>Xalan</B> <B>Language</B>
* v.r[.dd| <B>D</B>nn]"</CODE>.
* <P>Semantics of the version string are identical to the Xerces project.</P>
*/
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
+VERSION+"."+RELEASE+"."
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
: (""+MAINTENANCE));
}
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sourcesjar/org/apache/xalan/processor/XSLProcessorVersion.src
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Found in path(s):
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/domapi/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/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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*/

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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/xsltc/runtime/MessageHandler.java
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/uils/ElemDesc.java
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh.java
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java

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jar/org/apache/xalan/xslt/TransletException.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringBufferPool.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/And.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToSAXHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XPATHErrorResources_ca.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_pl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_TW.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/AVTPartXPath.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ExtendedLexicalHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/WhiteSpaceInfo.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/EndSelectionEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLang.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/DOM2SAX.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ka.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerIdentityImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/IntVector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processort/ProcessorGlobalVariableDecl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLLErrorResources_tr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/PredicatedNodeTest.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/OpCodes.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_hy.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplateElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/LiteralElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTextLiteral.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Step.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/util/IntegerArray.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_pt_BR.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XString.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ErrorMessages_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xtsct/axes/DescendantIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToXMLStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Sort.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLast.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/RealType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NodeSortKey.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Instruction.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/XPathFunctionImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ja_JP_HA.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/PrefixResolverDefault.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/CallTemplate.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CastCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/AbstractTranslet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ListingErrorHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/UseAttributeSets.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/FuncDocument.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FormatNumberCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dtcm/dtm/DTMAxisIteratorBase.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_fr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MatchGenerator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/VariableRef.java

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jar/org/apache/xalan/processor/ProcessorExsltFunction.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources.jar/org/apache/xpath/res/XPATHErrorResources_ko.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources.jar/org/apache/xalan/processor/ProcessorUnknown.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources.jar/org/apache/xpath/domapi/XPathNamespaceImpl.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources.jar/org/apache/xpath/axes/ReverseAxesWalker.java
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* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/runtime/Attributes.java
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* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources.jar/org/apache/xalan/res/XSLTErrorResources_ko.java
1.1363 jetty 6.1.22

1.1364 libgcrypt 1.6.5-2ubuntu0.2

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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.ic1.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (dgj -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
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